## RCRA HAZARDOUS WASTE FACILITY COMPLIANCE EVALUATION INSPECTION CHECKLIST

Facility:	AMERICAN STEEL FOUNDRIES SEBRING FACILITY
USEPA I.D.:	OHD 017 497 587 HWFB No.: 02-50-0366
Street:	LOCATED AT CORNER OF LAKE PARK BLUD & HEACOCK
City:	SMITH TOWNSHIP State: OH Zip:
County:	MAHONING Telphone: N/A
Fаж No:	PUCO No.: N/A
Owner/Operator:	AMSTED INDUSTRIES INC
Street:	ZOS NORTH MICHIGAN AVENUE
City:	CHICAGO State: 1L Zip: 60601
Telephone: ALLIA	MCE: 216 823 6150 EX: CHICAGO: 312 645 1700
Inspection Date:	01 / 11 / 94 Time: 09 _ 35
	of inspection given? (yes) (no) n advance?
	Name Agency/Title Phone
Inspectors:	JOHN PALMER OF PA 216 963 1232
	KAREN NESBIT OFFA 216 963 1200
Facility	TERRY BRADWAY AMSTED 216 823 6150 XZOL
Representative:	<u> </u>
	STATUS
Cond. Ex. SQG	SQG Large Quantity Generator Storage Disposal Transporter
Part A Permit: LDR Checklist A	(yes) (no) \( \sum \) Part B Permit: (yes) (no) \( \sum \) tached: (yes) (no) \( \sum \)
ia	<u>ACTIVITIES</u>
Containers	Used oil burner
Tanks	Hazardous waste fuel burner/blender
Wastepile	Incineration/Thermal treatment
Landfill V	Land treatment ment Groundwater monitoring/
Surface Impound	mentGroundwater monitoring

Revised:

(5/29/92) FINAL

#### REMARKS - GENERAL INFORMATION

Include a list of wastes being managed at the site and a brief description of site activity and waste handling procedures:

FORMER LAND DISPOSAL FACILITY FOR SOLID
WASTE & EAF BAGNOUSE DUST. CURRENTY
NEITHER GENERATING WASTE NOR RECEIVING
WASTE FROM OFF SITE. CLOSURE PLAN
SUBMITTED & UNDER REVIEW BY OFPA,

# FACILITY INSPECTION WASTE MANAGEMENT ACTIVITIES SUMMARY

DESCRIPTION OF WASTE

ON SITE MANAGEMENT

OFF SITE MANAGEMENT

E PA	QTY	PROCESS/ACTIVITY	GENERATOR		GENERATOR		GENERATOR		GENERATOR		GENERATOR		GENERATOR		GENERATOR		GENERATOR		GENERATOR		GENERATOR		GENERATOR		GENERATOR		ENERATOR		GENERATOR		T		T		TYPE	R E C	C O H T A I M E A	I M P	T A N K	W A 8 T E	L A M	DESCRIPTION OF	
WASTE	GEN PER MO.	GENERATING WASTE	LESS THAM 90 DAYS	LESS THAN 140 Days	LE88 THAM 270 DAY8	S D	OF ON-SITE TREATMENT (WHERE APPLICABLE)	TREATMENT		M 2 M 4 M 5 M 5 M 6 M 6 M 6 M 6 M 6 M 6 M 6 M 6		F E	L A B D F L L	OFF SITE MANAGEMENT																													
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#### PERMIT STATUS

GKNE	RAL RI	SQUIREMENTS	T/II/INS TOME W
1.	Has	the owner/operator submitted a Part A application hio EPA in accordance with OAC 3745-50-40?	Y, THEN WITHDA
	When	was the owner/operator's Part A submitted:	
	<u> </u>	UTHDEAWN	
2.	Is t	he owner/operator operating in compliance with the s and conditions of its HWFB permit?	~/A
	If n	ot, has a Permit Change Request (PCR) been submitted coordance with 3745-50-51?	~/A
	If y	res, what date was the PCR submitted?	
3.	Has	the owner/operator submitted a Part B?	~
PKRI	MIT B	RULE REQUIREMENTS	
4.	the	there been a rule or statute <u>change</u> which has caused owner/operator to become subject to Ohio's hazardous ce facility permitting requirements?	<u> </u>
	a.		
		MA	
	b.	What was the effective date of the rule or statute change in Ohio?	
	c.	Did the owner/operator submit a Part A to the Director in accordance with the requirements of OAC rule 3745-50-40(C)(D)?	N/A
NOT	re :	In accordance with 3745-50-40(D), owners/operators are to submit the Part A within 30 days after the date the become subject to Ohio's TSD facility standards. Smagenerators who treat, store or dispose of wastes were to submit a Part A by the effective date OAC Rule 374 [See OAC Rule 3745-50-40]	ey first ll quantity required
	d.	Did the owner/operator notify the US EPA of its hazardous waste activity? [3745-50-40(C)(1)(a)]	NIA
		i. What was the date of notification?	NA

#### OAC 3745-65-et seq. GENERAL FACILITY STANDARDS

IDEN	TIFICATION NUMBER (OAC 3745-65-11)	y/n/na	RMK #
1.	Has the facility owner/operator received an identification number from Ohio EPA (or US EPA) as required by OAC 3745-65-11?	<u>&gt;</u>	
DNNA	AL REPORT REQUIREMENT (OAC 3745-65-75)		
2.	Has the owner/operator submitted an annual Treatment- Storage-Disposal report to the Director of Ohio EPA by March 1st of each calendar year? [3745-65-75]	<u> </u>	· .
WAST	E ANALYSIS/WASTE ANALYSIS PLAN (OAC 3745-65-13)		
3.	Does the owner/operator (o/o) have a detailed chemical and physical analysis of the waste material containing all of the information which must be known to properly treat, store or dispose of the waste as required by 3745-65-13(A)(1)?	NIA	HAS ONE, BUT! SEE 7/12/93 CONSENT ORDER
4.	Is the waste analysis repeated when a process or operation generating hazardous waste changes? [3745-65-13(A)(3)(a)]	N/A	
5.	For off-site facilities; Is the waste analysis repeated when results of inspections under 3745-65-13(A)(4) reveal hazardous waste received at the facility does not match the waste designated on the accompanying manifest? [3745-65-13(A)(3)(b)]	~ /A	
6.	Does c/o have a written waste analysis plan which includes the following information [3745-65-13(B)(1) through (6)]:		
	a. The parameters for which each hazardous waste will be analyzed and rationale for the selection of these parameters? [3745-65-13(B)(1)]	NIA	
	b. The test methods to be used? [3745-65-13(B)(2)]	MA	·
	c. The sampling method which will be used, either one of the sampling methods described in Appendix I of 3745-51-20 or an equivalent method as defined in OAC 3745-50-10? [3745-65-13(B)(3)(a)(b)]	~/A	
	d. The frequency with which the initial analysis of the waste will be reviewed/repeated to ensure that the analysis is accurate and up-to-date? [3745-65-13(B)(4)]	MA	
	e. FOR OFF-SITE FACILITIES: The waste analysis that hazardous waste generators have agreed to supply? [3745-65-13(B)(5)]	NA	

Ā.	/ NJ	/NA	RMK	45
Ĭ.	/ IN .	/ Die	KUMK	- **

		FOR OFF-SITE FACILITIES: The sampling methods and procedures which will be used to inspect and, if necessary, analyze each movement of hazardous waste received at the facility to ensure that it matches the identification of the waste on the manifest [3745-65-13(C)]?  FOR FACILITIES OPERATING SURFACE IMPOUNDMENTS EXEMPT FROM LAND DISPOSAL RESTRICTIONS UNDER 3745-59-04(A):	<u>~/A</u> <u>~/A</u>	·····
		Does the waste analysis plan include procedures and schedules for:		
		<ul> <li>i. The sampling of impoundment contents? [3745-65-13(B)(7)]</li> <li>ii. The analysis of test data? [3745-65-13(B)(7)]</li> </ul>	NIA	
		iii. The annual removal of residues which are not delisted or which exhibit the characteristic of a hazardous waste and either do not meet treatment standards (3745-59-44) or where no treatment standards have been established? [3745-65-13(B)(7)	N/A	
ł	ı.	Where applicable: The methods which will be used to meet the additional waste analysis requirements of rules 3745-59-07, 3745-67-25, 3745-67-52, 3745-67-73, 3745-68-14, 3745-68-41, 3745-68-75 and 3745-69-02 of the OAC? [3745-65-13(B)(6)]	NIA	
Waste	ANZ	ALYSIS PLAN - LDR REQUIREMENTS		
NOTE:		The following requirements identified in Question #7 apports on-site and off-site TSD facilities.	pply to	
1	the prod disp	accordance with OAC Rule 3745-65-13(B)(6), does the facility's waste analysis plan includes analytical cedures necessary to ensure compliance with the land posal restriction requirements of Chapter 3745-59, luding:		
	a.	Procedures for conducting the TCLP for wastes which have a CCWE treatment standard?	MA	
	b.	Procedures for conducting a total constituent analysis for wastes which have a CCWE treatment standard?	A	

1.	fac	s the o/o maintain a written operating record at the $+1/6$ ility as required by 3745-65-73 which contains the $P = 4$ lowing information: $1NSPECTIONS$ OFLY- $SEE$ $7/12/93$	LINED SPECIFICALLY F
	a.	Description and quantity of each hazardous waste treated, stored or disposed of within the facility and the date and method pertinent to such treatment, storage or disposal? [3745-65-73(B)(1)]	~/A
	b.	As required by the Appendix to 3745-65-73, does the information specified in Question la include:	• .
		i. Common name, EPA hazardous waste identification number and physical state (solid, liquid, gas) of the waste?	<u> </u>
		ii. The estimated (or actual) weight, volume or density of the waste?	ν/A
•		iii. A description of the method(s) used to treat, store or dispose of the waste using the EPA handling codes listed in Table 2 of OAC 3745- 65-73?	<u>~/A</u>
	c.	The present physical location of each hazardous waste within the facility and cross references to specific manifest document numbers?	NIA
	đ.	Records of incidents which required implementation of the contingency plan?	<u> </u>
	е.	Records of any waste analyses and trial tests required to be performed?	NIA
	f.	Records of the inspections required by the general inspection requirements under 3745-65-15?	<u> </u>
٠	g.	Records of any monitoring, or analytical data required under other subparts as referenced by 3745-65-73(B)(6)?	MA
	h.	FOR DISPOSAL FACILITIES, location and quantity of each hazardous waste recorded on a facility map and cross-references to manifest document numbers? [3745-65-73(B)(2)]	~/A
	i.	Records of closure cost estimates and post-closure (DISPOSAL ONLY) cost estimates required by OAC 3745-662	SEE CLOSURE PLAN

2.	Does the operating record include documentation required to be maintained under the land disposal restriction requirements of Chapter 3745-59? [3745-65-73(b)(9) through (14)]	~/A
NOTE	The following recordkeeping requirements are applicable TSDS.	only to off-site
3.	Are manifests received by the facility signed and dated? [3745-65-71(A)(1)]	MA
4.	Is one copy given to the transporter, one copy sent to the generator within 30 days and one copy kept for at least 3 years? [3745-65-71(A)]	MA
	a. If shipping papers are used in lieu of manifests (bulk shipments, etc.), are the same requirements met [3745-65-71(B)]?	N/A
	b. Are any significant discrepancies in the manifest, as defined in 3745-65-72(A) noted in writing on the manifest document?	NA
5.	Have any manifest discrepancies been reconciled within 15 days as required by 3745-65-72(B) or has the o/o submitted the required information to the Director?	<u>~/A</u>
6.	If the facility has accepted any unmanifested hazardous wastes from off-site sources for treatment, storage, or disposal, has an unmanifested waste report containing all the information required by 3745-65-76(A) been submitted to the Director within 15 days?	N/A

REMARKS - OPERATING RECORD REQUIREMENTS

1.	Does the o/o inspect the facility on a weekly basis for malfunctions, deterioration, operator errors and discharge which may cause a release of hazardous waste or hazardous waste constituents or may pose a threat to human health? [3745-65-15(A)(1)(2)] If so,	es
	a. Are the inspections recorded in an inspection log or summary as required by 3745-65-15(D)? [3745-65-15(A)]	<u> </u>
	b. Do records contain date and time of inspection, name of inspector, notation of observations made and date and nature of any repairs or remedial actions as required by 3745-65-15(D)? [3745-65-15(A)]	<u> </u>
	c. Are inspection records maintained at the facility for at least (3) years as required by 3745-65-15(D)? [3745-65-15(A)]	Y FEB 199
2.	Has the owner/operator developed a written inspection schedule for inspecting; monitoring equipment, safety equipment, emergency equipment, security devices and operating and structural equipment (e.g. dikes, sumps)? [3745-65-15(B)] If so,	SECTION Y.1 OF CONTINGEN
	<ul><li>a. Is the schedule kept at the facility? [3745-65-15</li><li>(B) (2)]</li></ul>	× PLAN
	b. Does the schedule identify the types of problems which are to be looked for during the inspection? [3745-65-15(B)(3)]	
	c. Does the schedule include inspection of areas subject to spills (i.e. loading and unloading areas) daily when in use and according to other applicable regulations when not in use? [3745-65-16(B)(4)]	<u> </u>

NOTE: See Preparedness and Prevention checklist for additional testing/ recordkeeping requirements applicable to emergency equipment.

REMARKS - GENERAL INSPECTION REQUIREMENTS

		·		
1.	a.	Would physical contact with the waste structures or equipment injure unknowing/unauthorized person or livestock entering the facility? [3745-65-14(A)(1)]	<u> </u>	-
	b.	Would disturbance of the waste cause a violation of the hazardous waste regulations? [3745-65-14(A)(2)]		
IF :	вотн	1A AND 1B ARE NO, MARK QUESTIONS 2 AND 3 NOT APPLICABLE.		
2.	Doe	s the facility have -	,	٠
	a.	A 24-hour surveillance system, or;	$\sim$	
	b.	An artificial or natural barrier and a means to control entry at all times? [3745-65-14(B)(2)(a)(b)]	$\nearrow$	
3.	Per por	es the facility have a sign "Danger-Unauthorized rsonnel Keep Out" at each entrance to the active rtion of the facility and at other locations as cessary? [3745-65-14(C)]		

REMARKS - SECURITY REQUIREMENTS

#### OAC 3745-66 CLOSURE AND POST CLOSURE

		I/N/NA	KEIK #
1.	Is a written closure plan on file at the facility which contains the following elements: [3745-66-12]?		
	a. A description of how each hazardous waste management unit will be closed in accordance with 3745-66-11?	$\rightarrow$	
	b. A description of how final closure will meet the requirements of 3745-66-11?	<u> </u>	
	c. An estimate of the maximum amount of hazardous waste ever in inventory?	<u> </u>	
	d. A description of steps taken to remove or decontaminate facility equipment containment systems, structures, soils, and all hazardous waste residues?	<b>Y</b> _	
	e. The year closure is expected to begin and a schedule for the various phases of closure?	Y	
	f. A description of other activities necessary to ensure closure with the performance standards including ground water monitoring, leachate collection, and run-off control?	<u> </u>	
2.	Has the closure plan (and post-closure plan, if applicable) been amended 60 days prior to any changes in facility design processes, or closure dates or 60 days after an unexpected event occurs which affects the closure plan? [3745-66-12(C)]		
3.	Has the closure plan (and post-closure plan, if applicable) for surface impoundment, waste pile, land treatment or landf units been submitted to the Director 180 days prior to beginning the closure process? [3745-66-12(D)]	i11 	
4.	Has the closure plan (and post-closure plan, if applicable) for any non land disposal unit(s) been submitted to the Director 45 days prior to beginning the closure process? [3745-66-12(D)]	MA	
5.	Within 90 days of receipt of the final volume of waste or Director's plan approval, if that is later, was all hazardous waste treated, removed, or disposed in accordance with the approved plan? [3745-66-13(A)]	N/A	
6.	a via a secondaria with the emproved plan	MIA	· ·
7.	Did the owner/operator submit to the Director, within sixty (60) days after completion of closure, certification by both the owner/operator and an independent registered professional engineer that the facility has been closed	,.	
	in accordance with the approved closure plan? [3745-66-15]	NA	<del>-</del>
	CLOSURE/POST-CLOSURE -1-	(5)	(29/92)

8.	Did the owner/operator submit to the local zoning authority and the Director a survey plat in accordand with OAC 3745-66-16?	~/A
9	What permitted units at the facility have been closed in accordance with an approved closure plan?	
	FACILITY NOT CERTIFIED CLOSED	
	PLAN UNDER OFFA REVIEW	
10.	If closure was partial, list the regulated units which remain use at the facility:	n
	CLOSURE WILL BE COMPLETE WHEN CERT	IFIED
11.	If required, has the facility prepared a written post- closure plan? [3745-66-18]	<u> </u>
	If so, does the post-closure plan include:	SEE SECTION II
	a. A description of proposed ground water monitoring?	PLAN
	b. A description of planned maintenance activities?	SEE SECTION
	c. The name, address and phone number of person/office to contact during the post-closure period?	71 OF CLOSURE
12.	For disposal facilities; has the owner/operator submitted to local land authorities and the Director a survey plat within 60 days after certification of closure? [3745-66-19]	N/A - CECTIFIED
13.	Has the owner of the property on which a disposal unit is located recorded on the deed that:	
	a. The land has been used to manage hazardous waste and the type, quantity and location of waste?	
	b. Land use is restricted under closure and post-closure rules? [3745-66-19]	
		•

REMARKS - CLOSURE/POST CLOSURE REQUIREMENTS

 Does the generator provide a personnel training program in compliance with 3745-65-16(A)(B)(C) including instruction in safe equipment operation and emergency procedures, and implementation of the contingency plan? [3745-52-34(A)(4)]

<del>\</del> \_\_\_\_

 Does the generator provide personnel training to new employees within 6 months after the date of employment as required by 3745-65-16(B)? [3745-52-34(A)(4)]

3. Does the generator provide an annual refresher training course as required by 3745-65-16(B)? [3745-52-34(A)(4)]

N #1

4. Does the generator keep all the records required by 3745-65-16(D)(E) including; written job titles, job descriptions and documented employee training records? [3745-52-34(A)(4)]

TITLES AMP
DESCRIPTIONS SEE & 5.0 OF
CONTINUENCY
FLAM

REMARKS - PERSONNEL TRAINING REQUIREMENTS

PEQUIPED PER 7/12/93 CONSENT DECREE

#1 Last annual training 1-5-93 and 1-9-93 Last entrigency plan training 12-23-92 (PCRA TRAINING)

note Personnel training program not in operating record (or)
water you titles and you descriptions also not in OR.

BUT NOT APPLICABLE - PRESE

#### OAC 3745-68 LANDFILLS

GENE	RAL (	OPERATING REQUIREMENTS	Y/N/NA RMK #
1.	Doe	s the facility provide the following:	
	a.	Run-on control capable of handling a 24-hr, 25-yr storm? [3745-68-02(A)]	<u>~</u>
	b.	Run-off control capable of handling a 24-hr, 25-yr storm? [3745-68-02(B)]	<u>~</u>
	c.	If run-off is hazardous waste, is it managed in accordance with applicable rules? [3745-68-02(B)]	?
	đ.	Are facilities associated with run-on and run-off control systems managed to maintain design capacity after rain events? [3745-68-02(C)]	N/A
	e.	Control of wind dispersal of hazardous waste? [3745-68-02(D)]	<u>~</u>
REM	arks	- LANDFILL GENERAL OPERATING REQUIREMENTS	

#### SURVEYING AND RECORDEREPING REQUIREMENTS

Does the operating record include the following information	
as required by OAC 3745-68-09:	SEE 7/12/93
a. A map showing the exact location and dimensions of each cell? [3745-68-09(A)]	N/A CONSENT DECREE

b. The contents of each cell and the location of each hazardous waste type within each cell? [3745-68-09(B)]

Y/N/NA RMK #

3.	Are ignitable or reactive wastes treated so the resulting mixture is no longer ignitable or reactive? [3745-68-12]	MA.	· ·
NOTE	If waste is rendered non-reactive or non-ignitable, see requirements. If not, the provisions of 3745-65-17 and apply.	treatment 3745-68-1	2 (b)
4.	Does the owner/operator dispose of incompatible wastes in separate cells? [3745-68-13] If not, the provisions of 3745-68-15 apply.	MA	
5.	Are empty containers crushed flat, shredded, or similarly reduced in volume before being buried beneath the surface of the landfill? [3745-68-15]	NA	
6.	Are containers at least 90% full prior to placement in the landfill?	<u>~/A</u>	
7.	Is bulk or non-containerized liquid waste or waste containing free liquids treated so that free liquids are no longer present? [3745-68-14(A)]	MA	
8.	Are containers other than lab packs, ampules, batteries or capacitors holding free liquids placed in the landfill? [3745-68-14(B)]	MA	(N)
	a. If yes, has all free liquid been removed, absorbed or otherwise eliminated?	MA	
9.	Has the owner/operator employed Method 9095 (Paint Filter Liquids Test) to demonstrate the absence of free liquids in containerized or bulk waste? [3745-68-14(D)]	~/A	<del></del> ,
10.	Are the special requirements for lab pack waste met? [3745-68-16]	<u>~/A</u>	

REMARKS - SURVEYING AND RECORDKEEPING REQUIREMENTS

#### LANDFILL CLOSURE AND POST CLOSURE REQUIREMENTS

Y/N/NA RMK #

11. Is a written closure/post-closure plan available for inspection at the facility? [3745-66-12]

12. Has the closure/post-closure plan been amended 60 days prior to any changes in facility design, or operation, or no later than 60 days after an unexpected event has occurred which has effected the closure plan?
[3745-66-18(D)]

VIA

13. Has the closure/post-closure plan been submitted to the Director 180 days prior to beginning closure? [3745-66-18(E)]

PLAN UND ER REVIEW BY OEPA

14. Does the plan contain information required in 3745-68-10?

15. Is a closure cost estimate available?

 $\sim$ 

16. Has closure begun?

M/A CENTIFIED

17. Has the property owner attached a notation to the property deed or other instrument which will notify any potential purchaser that the property has been used to manage hazardous waste and future use of the property is restricted under 3745-66-17(C) as required in 3745-66-19?

REMARKS - LANDFILL CLOSURE/POST-CLOSURE REQUIREMENTS

# RCRA HAZARDOUS WASTE GENERATOR COMPLIANCE EVALUATION INSPECTION CHECKLIST

Facility:	AMSTED INDUSTRIES / AMERICAN STEEL FOUNDRIES
USEPA I.D.:	OHD 981 909 481 HWFB NO.:
Street:	1001 EAST BROADWAY
City:	ALLIANCE State: OH Zip: 44601-00
County:	STAPK Telphone:
Owner/Operator:	AMSTED INDUSTRIES INC
Street:	205 NORTH MICHIGAN AVE
City:	CHICA GO State: 1 L zip: 60601
Telephone:	216 823 6150- ALLIANCE
Inspection Date: Advance notice o If so, how far i	11 126-27, 91 Time: 08 - 30  f inspection given? (yes) (no)  n advance?
	Name Agency/Title Phone
Inspectors:	JOHN PALMER OFPA 216 475 9171
	MAYEY ZIKMANIS
Facility	TERRY BRADWAY ENGINEER 216 823 6150 × 288  SAFETY OF THE PROPERTY OF THE PROPE
Representative:	WILLIAM HEESTAMD ENVIRONMENTAL SUPER
	PAT BOYCE SAFETY SUPER V
Cond. Exempt SQC	SQG Large Quantity Generator V
7 8	ACTIVITIES
Containers  Tanks  Wastepile  Landfill  Surface Impounds	Used oil burner  Hazardous waste fuel burner/blender  Incineration/Thermal treatment  Land treatment  Groundwater monitoring  Revised: 1/7/91

#### REMARKS - GENERAL INFORMATION

Include list of wastes being generated/managed at the site and a brief description of site activity and waste handing procedures:

FACILITY IS A LARGE FOUNDAY PRODUCTING CAST

STEEL PARTS, MOSTLY FROM FOR THE

RAILPOAD INDUSTRY, SEE PAGE 4

FOR HAZWASTE DETAILS.

BASICLY: DOOF DOOR EAT BACMOUSE DUST

DOOI/DOIR/DOJ9 PANTS WASHER SOLVENTS

DOOF WIRE WELD DUST

DOOI WASTE OILS

### GENERATOR CLASSIFICATION (OAC 3745-52-34)

	Does	the facility:
L.		Generate < 100 Kg (25-30 gallons) of hazardous waste in a calendar month?
		(yes) (no)
		If so, the facility is classified as a Conditionally Exempt Small Quantity Generator, unless 3.b. applies. Please complete the Conditionally Exempt Small Quantity Generator Requirements checklist.
2 .		Generate between 100 and 1000 Kg of hazardous waste in a calendar month? (about 25 to under 300 gallons)
		(yes)
		If so, the facility is classified as a Small Quantity Generator, unless 3.b. applies. Please stop here and complete the Small Quantity Generator Requirements checklist.
3.	a.	Generate > 1000 Kg (~ 300 gallons) of hazardous waste in a calendar month?
		OR;
	b.	Generate > 1 Kg of acutely hazardous waste in a calendar month?  (yes) (no)
		If so, the facility is classified as a Large Quantity Generator.  Please complete the Large Quantity Generator Requirements checklist

REMARKS - GENERATOR CLASSIFICATION

# FACILITY INSPECTION WASTE MANAGEMENT ACTIVITIES SUMMARY

ESCRIPTION OF WASTE

ON SITE MANAGEMEN'T

OFF SITE MANAGEMENT

:		· · · · · · · · · · · · · · · · · · ·												
EPA WASTE CODE	QTY GEN PER MO.	PROCESS/ACTIVITY GENERATING WASTE		LETT THAN 180 DAY	LETT	T S D	TYPE OF ON-SITE TREATMENT LWHERE APPLICABLES	N H C Y C L H D	C O N T A I M E A		A H K	W A B T E E E E E E E E E E E E E E E E E E	L A 38 5 7 1 L L	DESCRIPTION OF OFF SITE MANAGEMENT
D006	230 YARDS	ELECTRIC ARC FUDNACE BAGHOUSE DUST FROM SECONPARY SMELTING	/						V					MANIFESTED OFF STIE TO ENVIRITE IN CANTON, ON
P001 p018	7900 POUNTS	PARTS CLEANER SPENT SOLVENT 9 PARTS CLEANERS TOTAL	V						V					MANIFESTED OFF SITE FOR RECYCLING & SAFETY KLEEN KENT, OH
poo 5		DUST COLLECTED  FROM WIRE WELDER  DUST (SAIELLITE  ACCUMULATION)	V						V					DUMPED INTO EAF BACHOUSE DUST & SENT TO ENUIDITE
D001	VARIOUS	MISCELLANEOUS WASTE	1.	,					V					MANIFESTED OFF SITE TO SAFETY KLEEN NEW CASTLE KY
Doos	ELIZOBIC	NOT CLEANER OF PHENOL						-	/					NONE GENERATED IN 1991
										_		_		
								_		_		_		
į ′			_l		L	⅃		l	L	_ l	l	1		

1.	Does the	0/0	have a	writ	ten	Conting	ency	Plan	wh	ich
	contains	the	follow	ing?	[374	15-65-52	(A) (	B) (C)	(D)	(E)]:
				-						

a.	Actions t	to	be	taken	bу	personnel	in	the	event	οf	an
	emergency incident?										

b. Arrangements or agreements with local or state emergency authorities?

c. Names, addresses and telephone numbers of all persons qualified to act as emergency coordinator?

d. A list of all emergency equipment including location, physical description and outline of capabilities?

e. If required due to the actual hazards associated with the waste handled, an evacuation plan for facility personnel? [3745-65-52(F)]?

¥ \_\_\_

2. Is the Contingency Plan designed to minimize hazards to human health or the environment from fires, explosions or any unplanned release of hazardous waste or hazardous waste constituents to air, soil or surface water? [3745-65-51(A)]

3. Is a copy of the Contingency Plan and any plan revisions maintained on-site and has it been be benitted to all local and state emergency service authorities that might be required to participate in execution of the plan?
[3745-65-53(A)(B)]

<u>Y</u>

4. Is the plan revised in response to rule changes, facility, equipment and personnel changes or failure of the plan? [3745-65-54]

5. Is an emergency coordinator who is familiar with all aspects of site operation and emergency procedures who has the authority to implement all aspects of the Contingency Plan designated at all times (on-site or on-call)? [3745-65-55]

<u>Y</u>\_\_\_\_

6. If an emergency situation has occurred, has the emergency coordinator implemented all or part of the Contingency Plan and taken all of the actions and made all of the notifications necessary under 3745-65-56(A-J)?

N/A

REMARKS - CONTINGENCY PLAN REQUIREMENTS

1.	Does the generator provide a Personnel Training Program in compliance with 3745-65-16(A)(B)(C) including instruction in safe equipment operation and emergency procedures, and implementation of the contingency plan? [3745-52-34(A)(4)]	<del></del>	
2.	Does the generator provide Personnel Training to new employees within 6 months after the date of employment as required by 3745-65-16(B)? [3745-52-34(A)(4)]	<del></del>	
3.	Does the generator provide an annual refresher training course as required by 3745-65-16(B)? [3745-52-34(A)(4)]	<u> </u>	
4.	Does the generator keep all the records required by 3745-65-16(D)(E) including; written job titles, job descriptions and documented employee training records? [3745-52-34(A)(4)]	· _ Y	

REMARKS - PERSONNEL TRAINING REQUIREMENTS

#### OAC 3745-52 - LARGE QUANTITY GENERATOR REQUIREMENTS

		·	
WASTE	EVALUATION (OAC 3745-52-11)	Y/N/NA	RMK #
1.	Have wastes generated at the facility been evaluated in compliance with the waste evaluation requirements of OAC rule 3745-52-11(A)(B) and (C)?	Y	
	If not, specify those waste streams which the generator has failed to adequately evaluate:		
2.	Are any wastes generated at the facility identified by the generator as being excluded from regulation under Rule 3745-51-04?	$\nearrow$	
	If so, specify those waste streams identified by the generator as being excluded under 3745-51-04:	r	•
	·		
3.	Is the facility generating any wastes which are identified as recyclable materials as defined in OAC 3745-51-06?	$\overline{\mathcal{N}}$	

If so, please identify these waste streams below:

_			
Y/N	/bra	RMK	Ŧ.

		I/N/NA	RMK
4.	Is the generator recycling any materials on-site by:		
	a. Using or reusing the material as an ingredient in	,	
	an industrial process to make a product?	$\sim$	
	i. If so, is the material being reclaimed before it is used or reused?		
	b. Using the material as a substitute for commercial		
	products?		
	c. Returning the material to the original process from which it was generated as a substitute for a		
	raw material feedstock?		
	i. If so, is the material reclaimed before		
	returning to the original process?	1	<u> </u>
,	Please identify those materials that the generator is recycling as described in 4.a., 4.b. and/or 4.c. below:		
-	D SOME EAF DUST, IF SPILLED, IS	CHAR	GED
	D SOME EAF DUST, IF SPILLED, IS  BACK INTO THE FURNACES.	•	
	Has the generator identified any waste treatment activity as being excluded from regulation because of totally enclosed treatment or via operation of an elementary neutralization unit and/or wastewater treatment unit as described in Rule 3745-65-01?  If so, specify those waste treatment activities which the gendentified as being excluded from regulation:	$\nearrow$	as
6.	Are Land Disposal Restricted (LDR) wastes being generated?  If so, complete the Land Disposal Restriction Checklist.	<u> </u>	
-			
GEN	ERATOR IDENTIFICATION NUMBER (OAC 3745-52-12)		
7.	Prior to treating, storing, disposing, transporting or offering to transport hazardous waste, has the generator obtained a generator identification number from USEPA as required by 3745-52-12?	<u> </u>	
GKNI	ERATOR ANNUAL REPORT (OAC 3745-52-41)		
8.	Has the generator filed annual reports to the Director on or before March 1st of each calendar year as required by 3745-52-41?	<u>&gt;</u>	

HAZARDOUS	WASIE IMPORT/ BAPORT	AND OAC 3745-52-60)	Y/n/na rmk	#
9. Does	the generator import	or export hazardous waste?	<u> </u>	
:	If so, are the wastes	handled in accordance with the		

requirements of 3745-52-50 through 3745-52-57 and

REMARKS - HAZARDOUS WASTE IMPORT/EXPORT

.3745-52-60?

PRE-	TRAN	SPORT REQUIREMENTS (OAC 3745-52-30 TO 3745-52-33)	Y/N/NA	RMK #
10.	req	s the generator meet the following pre-transport uirements prior to offering hazardous wastes for nsport off-site:		
	a.	The waste material is packaged, labeled, and marked in accordance with the applicable DOT regulations [3745-52-30, 3745-52-31, and 3745-52-32]?	<u>&gt;</u>	
	b.	Each container with a capacity of 110 gallons or less is affixed with a completed hazardous waste label as required by 3745-52-32?	<u> </u>	
	c.	The generator meets the requirements for proper DOT placarding or offers the appropriate DOT placards to the initial transporter in compliance with 3745-52-33?	<u>&gt;</u>	

REMARKS - PRETRANSPORT REQUIREMENTS

1.	Has the	e gene	erator	closed	any <	90-day	accumulation	unit(s)
	since o	date d	of last	inspec	ction?		_	

 $\mathcal{N}_{-}$ 

If so, describe the unit(s) which the generator has closed:

2. If the generator has closed any < 90-day accumulation unit(s) as described in Question #1, was closure completed to meet the closure performance standard of 3745-66-11?
[3745-52-34(A)(1)]

MA

Please provide a description of the type of documentation provided by the generator to confirm that closure was completed in accordance with the closure performance standard:

REMARKS - GENERATOR CLOSURE REQUIREMENTS

#### Y/N/NA RMK #

#### GENERATOR ACCUMULATION IN CONTAINERS AND TANKS (OAC 3745-52-34)

- If the generator elects to accumulate hazardous waste on-site in containers or tanks for 90 days or less without a permit as provided under 3745-52-34, are the following requirements met:
  - The containers or tanks are clearly marked with the words "Hazardous Waste"? [OAC 3745-52-34(A)(3)]
  - b. The date that accumulation began is clearly marked on each container? [OAC 3745-52-34(A)(2)]

<u> </u>	
Y	

In addition, OAC 3745-52-34(A)(1) also requires generators accumulating hazardous waste(s) in containers < 90 days to comply with the "Container Management" Rules of OAC 3745-66-70 to 3745-66-77. If the generator is accumulating hazardous waste(s) in containers, please complete Management of Containers checklist to document compliance with these requirements.

Is the generator accumulating hazardous waste(s) in tanks?

If so, OAC 3745-52-34(A)(1) requires generators to comply with Rules 3745-66-90 to 3745-66-992 except Paragraph (c) of rule 3745-66-97 and rule 3745-66-991.

If the generator is accumulating hazardous waste(s) in tanks, complete the Storage and Treatment in Tanks checklist to document compliance with these requirements.

Has the generator accumulated hazardous wastes in excess of ninety (90) days?

a. If so, has the generator been granted an extension by the Director for accumulation in excess of (90) days?

MA

REMARKS - GENERATOR ACCUMULATION REQUIREMENTS

D NOT AT PRODUCTION FACILITY SINCE MAY, 1991

### SATELLITE ACCUMULATION AREA REQUIREMENTS (OAC 3745-52-34(C))

	Has the facility elected to accumulate hazardous waste at or near a point of generation which is under the control of the operator of the process generating the waste? (defined as <a href="mailto:satellite accumulation">satellite accumulation</a> )	
	If so, are the following requirements of OAC 3745-52-34(C) being met:	
	a. Quantities of waste accumulated do not exceed 55 gallons at any time?	<u> </u>
	b. Quantities of acutely hazardous waste accumulated do not exceed 1 quart at any one time?	MA
	c. The generator has marked the containers with words "Hazardous Waste" or with other words identifying the contents of the container?	<u> </u>
3745-	66-71, 3745-66-72, 3745-66-73(A), 3745-66-76 and 3745-66-77.	Please complete
requi 2.	Tse and Management of Containers checklist to document compliance.  Is the facility accumulating hazardous waste(s) in excess of the amounts listed in either 1.a or 1.b?	iance with these
requi 2.	rements.  Is the facility accumulating hazardous waste(s) in excess	Ance with these
requi	rements.  Is the facility accumulating hazardous waste(s) in excess of the amounts listed in either 1.a or 1.b?  a. If so, did the generator comply with 3745-52-34(A)	Ance with these
requi	Is the facility accumulating hazardous waste(s) in excess of the amounts listed in either 1.a or 1.b?  a. If so, did the generator comply with 3745-52-34(A) within three (3) days? and;  b. Upon accumulating > 55-gallons of waste, did the generator mark the container holding the excess hazardous waste with the date the excess began accumulating?	M D  Y D  Y D  ATION AREA

USE	AND MANAGEMENT OF CONTAINERS (OAC 3745-66-70 TO 3745-66-77)	Y/H/HA	RMK #
1.	Are hazardous wastes stored in containers which are:  a. Closed? [3745-66-73(A)]  b. In good condition? [3745-66-71]  c. Compatible with wastes stored in them? [3745-66-72]	<u>у</u> <u>у</u>	
2.	Are containers stored closed except when it is necessary to add or remove wastes? [3745-66-73(A)]	<u>y</u>	
3.	Are hazardous waste containers stored, handled and opened in a manner which prevents container rupture or leakage? [3745-66-73(B)]		
4.	Is the area where containers are stored inspected for evidence of leaks or corrosion at least weekly? [3745-66-74]	<u></u>	
5.	Is the facility recording inspections described in Question #4 in an inspection log or inspection summary as required by OAC 3745-66-74(B) which contains the following information:		
(	a. Date and time of inspections?  b. Name of inspector?  c. Notation of observations made during the inspection?  d. The date and nature of any repairs or other remedial action?	<u>У</u> <u>У</u> <u>У</u>	0
б.	Are ignitable and/or reactive hazardous waste(s) being managed at the facility? If so,	<u> </u>	
	a. Are containers holding ignitable or reactive waste located at least 50 feet (15 meters) from the facility's property line? [3745-66-76]	<u>y</u>	
	b. Are containers holding hazardous wastes stored separately from other materials which may interact with the waste in a hazardous manner? [3745-66-77(C)]	<u></u>	<u> </u>
REMA	arks - Container management requirements	CPEC.	<sub>T</sub> ICN
	TIME ON SHEET FOR IN		

11/27/91 N. Zekmanis

	WASTE MATERIAL INS	PECTION CHECK	របាខា		
Date	NOVEMBER 22, 1991	Inspector <u>U</u>	ulla	The	<u> </u>
			Satelite Poly	Packs	Flammable
		Power house	B&E #1	Garage	Storage Bld.
<u> </u>				<u> </u>	
1.	Are all drums labelled properly?	<u> </u>	<u> </u>	1 4.	<u> </u>
2	Are all drums closed and capped?	1 1	1 /	10	ŭ-
2.	Are an aroms crosed and cupped:	<u> </u>	- 4	7	7
3.	Are there any damaged or leaking drums?	7	h	N	Ч
4.	Is there any spilled material in the			-	
	bottom of the poly packs?	N	ע	N	ALA.
5	Is there a funnel available for each		Sec.		
Ų.	drum of material contained in the				
	poly pack?			14	<del>- 4-</del>
	Is the appropriate fire extinguisher(s)	V	U	U	
0.	and/or sprinkler system for each				•
	respective area as identified in the				
	contingency plan charged and ready			1	1 1
	for use?		- Y	1 4	<del>\ \</del>
7.	is the appropriate spill containment				• • • • • • • • • • • • • • • • • • • •
	material available and ready for use?	<u> </u>	<u> </u>	<del>  \                                   </del>	7
8.	Is non-hazardous material stored				
	separate from hazardous material?	y	4	1 4	<u> </u>
9.	is the communication equipment (radios				
	and telephone) functioning properly?	<u> </u>	4	! Y	4
10.	is there adequate isle space between			· · · · · · · · · · · · · · · · · · ·	T
	drums?	NA	NA	NA_	<u> </u>
11.	Is the operating structure in good				
	condition?	L L	<u> </u>	<del>  \</del>	<del>                                     </del>
( )	Are the security devices intact and in	0	ŧ	v	U
14.	good working order?	11	u	U	14
		1	0	9	Ō
13.	Is the monitoring equipment functioning			1 14	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	properly?	<u></u>	<u> </u>	· <del>Y</del>	<del>' ' ' ' ' '</del>

REMARKS:

1.	Is the facility operated to minimize the possibility of fire, explosion, or non-planned release of hazardous waste? [3745-65-31]	<u> </u>	
2.	Has there been a fire, explosion or non-planned release of waste at the facility since date of last inspection?	$\sim$	Converge of the Contract of th
	a. If yes, was the contingency plan implemented? [3745-65-51(B)]	N/A	
3.	If required due to actual hazards associated with the waste, does the facility have the following equipment: [3745-65-32(A)(B)(C)(D)]		
	a. Internal alarm system?	<u> </u>	
•	b. Access to telephone, radio or other device for summoning emergency assistance?		
	c. Portable fire control equipment, spill control and decontamination equipment?	<u> </u>	
	d. Water of adequate volume and pressure via hoses, sprinkler, foamers or sprayers?	<u> </u>	
4.)	Is all required spill control and decontamination equalment, fire and communications equipment tested on a weekly basis and maintained as necessary? [3745-65-33]	<u> </u>	
(	a. Does the facility keep an equipment testing log required by 3745-65-33(B), including date and time of test, observations made, and date and nature of any repairs?	~	NO TIME OF
5.	If required due to the actual hazards associated with the waste, do personnel have immediate access to an emergency communication device during times when hazardous waste is being physically handled? [3745-65-34]	<u> </u>	
6.	If required due to the actual hazards associated with the waste, is adequate aisle space maintained to allow unobstructed movement of emergency or spill control equipment? [3745-65-35]	<u> </u>	
7.	If required due to the actual hazards associated with the waste, has the facility attempted to make appropriate arrangements with local authorities to familiarize them with possible hazards and facility layout? [3745-65-37(A)]	<u> </u>	

8. Where state and local emergency service authorities have declined to enter into any proposed special arrangements or agreements, has the refusal been documented?

[OAC 3745-65-37(B)]

$\forall$	

REMARKS - PREPAREDNESS AND PREVENTION REQUIREMENTS

Date	NOVEMBER 22 PAI	Inspector: Williamy
		Yes No NA
1.	Does the main dust collector hoper have any holes or dust leakage evident?	
2.	Does the screw conveyor leak or have any holes?	
3.	Is dust leakage evident from any other part of the collector?	
4.	Is the discharge hose in good condition?	
5.	Is the ground under the collector clean and free of freshly spilled furnace dust?	
6.	Is the transport trailer in good condition and without physical holes?	
7.	Is the plastic liner in place?	
8.	Is the cover tarp secured in place over the trailer after each fill cycle?	
9.	Is the cover tarp in place and free of holes?	
10.	Are the hazard material signs in place on the sides of the trailer?	
11.	Are the dates the trailerwas placed under the collector correct on the signs?	
12.	Have any minor spills been cleaned-up since last inspection?	
13.	Has the communication equipment been checked?	
14.	Are all the security devices functioning properly?	
REMA	RKS:	

rec. from W. Heestand - ASF 11/27/91 N. Zikmanis

1.	resp	s the generator meet the following requirements with pect to the preparation, use and retention of the ardous waste manifest:		
	a.	All hazardous wastes shipped off-site have been accompanied by a completed manifest, USEPA form 8700-22 in compliance with 3745-52-20(A)?	<u> </u>	
	b.	The manifest contains all information required by 3745-52-20 and the minimum number of copies required by 3745-52-22?	<u>Y</u>	
	c.	The generator has designated at least one permitted disposal facility and has/will designate an alternate facility or instructions to return waste in compliance with 3745-52-20(C)(D)(E)?	<u> </u>	
	d.	Prepared manifests have been signed by the generator and initial transporter in compliance with 3745-52-23 (A) (1) (2)?	<u> </u>	
2.	man	the generator received a return copy of each completed ifest within thirty-five (35) days of the date the waste accepted by the initial transporter?	<u> </u>	· -
	a.	If not, has the generator complied with the Manifest Exception reporting requirements in 3745-52-42?	<u>Y</u>	

#### REMARKS - MANIFEST REQUIREMENTS

Safety Klein Parto Washers - Dool/Do39/Do18

EAF Dust - Doob 1Doo8 - Envirite

Waste Solid - Doos, Doob, Doo8 - EnvirII e
Smoke egger dust

at least 3 years as required by 3745-52-40?

Are signed copies of all hazardous waste manifests and any documentation required for Exception Reports retained for

\* Any waste which has no analysis (ie waste oil) is listed as a DOOI and sent to Safety Kleen.

# TOXICITY CHARACTERISTIC (TC) RULE REQUIREMENTS

		•		m /37	w/2	rmr#
WASTE		ION (GENERATOR REQUIREMENT)		Y/H	N/A	remy.
1.	emhibit 40 CFR	generator evaluated all wastes to deter any of the toricity characteristics as 262.247 [40 CFR 262.11]		<u>Y</u> _	-	
	9	old the generator use knowledge of the prince the prince if wastes exhibit any of the to characteristics? OR:	•	<del>-</del>		
	•	Did the generator obtain a chemical analy wastes to determine if the wastes demons of the tomicity (TC) characteristics?	•			ached
		If the generator has obtained a chemica please attach a copy of the analytical				
2.	Please facili	identify which of the following TC wast ty:	es are being mai	račer d		06/D008-Et
		TAL WASTES	D010 (Selen	i propi	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Bust
	<u></u>	004 (Arsenic)	DOII (Silve			
		Oll (Endrin) D014 (Methoxychlor) Oll (Lindane) D015 (Toxaphene)	D016 (2,4-D D017 (2,4,5	) -TP)		
		GANIC HASTES - Safety Klein Partswashin				
		018 (Benzene) 019 (Carbon tetrachloride) 020 (Chlordane) 021 (Chlorobenzene) 022 (Chloroform) 023 (o-Cresol) 024 (m-Cresol) 025 (p-Cresol) 026 (Crtsol) 027 (1,4-Dichlorobenzene) 028 (1,2-Dichloroethane) 030 (2,4-Dinitrotoluene)	D031 (Hepta D032 (Hexac D033 (Hexac D034 (Hexac D035 (Meth) D036 (Nitr D037 (Pent D038 (Pyri D039 (Tetr D040 (Tric D041 (2,4, D042 (2,4, D043 (Viny	chlorob chloroe yl ethy obenzen rachlor dine) achloro thloroet 5-Trick	enzene utadie thane) t keto copheno chyle chylen chlorop	ene)  ene)  ene)  ene)  ehenol)

Please identify below, how the facility is managing TO hazardous wastes: OH-SITE ON-SITE STORAGE GENERATOR DISPOSAL TREATMENT (> 90 DATS) ACCUMULATION (< 90 DAYS) Injection Well Tank Container Container \_\_\_\_ Surface Incinerator Tank Tank Impoundment \_\_Other Waste Pile Land Application Surface Impoundment RMK# N/AY/N PART A APPLICATION REQUIREMENTS For TSD facilities: Does the company have available, a copy of its Part A permit application which has been revised to NIA reflect TC waste codes? If so, please obtain a copy and attach to this checklist. If the company does not have a revised Part A available, does the facility representative indicate that a revised NA Part A application has been filed with U.S. EPA? RECORDREEPING REQUIREMENTS Is the owner/operator in compliance with the 40 CFR Part 264 and Part 265 recordkeeping requirements applicable to the management of TC waste? If not, please identify below the specific 40 CFR violations or potential

40 CFR violations occurring:

T. Is (are) the unit(s) used to manage TC hazardous waste in compilance with the structural and operating requirements of 40 CFR Part 264 and Part 265?

Y

If not, please identify below the specific 40 CFR violations or potential 40 CFR violations occurring:

## OPERATION/MAINTYNANCE REQUIREMENTS

Y/N N/A RMR#

8. Is the owner/operator complying with 40 CFR Part 264 and Part 265 operation and maintenance requirements to ensure the proper management of TC hazardous wastes?



If not, please identify below the specific 40 CFR violations or potential 40 CFR violations occurring:

## OAC CHAPTER 3745-59 (40 CFR PART 268) - LDR GENERAL REQUIREMENTS

CASE-BY-CASE EXTENSIONS	Y/N/NA	RMK‡
1. Has the entity received an extension for compliance with land disposal restrictions from US EPA in accordance with O.A.C. Rule 3745-59-05 (40 CFR 268.5)? If yes,		
(a) List the waste(s) affected:		
(b) Has such an extension been recognized by the Director of Ohio EPA? [O.A.C. Rule 3745-59-05(C)]		
(c) When does the extension expire?		
NOTE: A case-by-case extension can be granted for up to one year is renewable once (by US EPA) for an additional year.  VARIANCE FROM A TREATMENT STANDARD	The extension	
2. Has the entity been granted a variance from an LDR treatment standard by US EPA as allowed by O.A.C. Rule 3745-59-44 (40 CFR 268.44)? If yes,		
(a) List the waste(s) affected:	4.	
(b) Has the petition been recognized by the Director of Ohio EPA? [O.A.C. Rule 3745-59-44(C)]	/	
NOTE: Until the extension or variance identified in Questions 1 has been recognized by the Director of the Ohio EPA, the emust continue to manage the waste in compliance with the I requirements. [See O.A.C. Rules 3745-59-05(C) and 3745-59-	entity DR	

3.	Has the entity petitioned US EPA for a variance to allow for
	continued land disposal of untreated LDR wastes based upon a
	demonstration that there will be no migration from the disposal
	unit as specified in O.A.C. Rule 3745-59-06 (40 CFR 268.6)?
•	If yes,

- (a) List the waste(s) affected:
- (b) Has the entity's "no migration" demonstration been approved by US EPA?

NOTE: Until receiving approval of the petition by US EPA, the entity must comply with all LDR requirements applicable to the petitioned waste(s). No approval or recognition of the petition by the Director of the Ohio EPA is required. [O.A.C. Rule 3745-59-06; 40 CFR 268.6]

### PROHIBITION AGAINST DILUTION

- 4. In compliance with O.A.C. Rule 3745-59-03 (40 CFR 268.3), does the entity prohibit the dilution of a restricted waste or treatment residue from a restricted waste:
  - (a) As a substitute for adequate treatment to achieve compliance with LDR treatment standards?

<u>Y</u> \_\_\_\_\_

- (b) To circumvent the effective date of a prohibition (e.g. to dilute a "non-wastewater" waste to a "wastewater" to avoid complying with the "non-wastewater" treatment standard)?
- (c) To otherwise avoid a prohibition in O.A.C. Rules 3745-59-30 through 3745-59-33? (40 CFR 268.30 through 268.33)
- (d) To otherwise avoid a prohibition imposed by Section 3004 of RCRA?

NOTE: Dilution of wastes is permissible under the following conditions:

- i. The entity dilutes a characteristic only hazardous waste in a wastewater treatment system which treats wastes subsequently discharged pursuant to a permit issued under section 402 of Clean Water Act or which treats wastes for purposes of pretreatment under section 307 of the Clean Water Act; and,
- ii. No other method of treatment has been specified as the treatment standard for the waste. (See 40 CFR 268.3)

### LDR - GENERATOR REQUIREMENTS

NOTE: The following requirements apply only to large quantity generators and small quantity generators. Conditionally exempt small quantity generators are exempt from land disposal restriction requirements as referenced in O.A.C. Rules 3745-59-01(C)(3) (40 CFR 261.8(e)(1)) and 3745-51-05(B) (40 CFR 261.5(b)).

EVAI	UATION OF WASTES/DETERMINING APPROPRIATE TREATMENT STANDARDS	Y/N/NA	RMK#
N.	Has the generator adequately evaluated all wastes generated to determine if the wastes are restricted from land disposal under O.A.C. Chapter 3745-59 (40 CFR Part 268)? [O.A.C. Rule 3745-59-07(A); 40 CFR 268.7(a)]	<u>_</u> Y	·
	(a) For determinations based solely on knowledge of the waste:  Is supporting data used to make this determination being retained on-site? [O.A.C. Rule 3745-59-07(A)(5);  40 CFR 268.7(a)(5)]	W	*
	(b) For determinations based upon analytical testing of the waste: Is a copy of waste analysis data being retained on-site? [O.A.C. Rule 3745-59-07(A)(5); 40 CFR 268.7(a)(5)]  Doc5, Doo6, Doo8 Dool, Dol8, Do39  Has the generator determined the correct "treatability group" for	<u>Y_</u>	attached
2.	each waste restricted from land disposal (e.g. wastewater, non-wastewater, high arsenic, low arsenic, high zinc, low zinc, etc.)?	<u>Y</u>	
3.	Has the generator determined if restricted wastes meet or exceed treatment standards? [O.A.C. Rule 3745-59-07(A); 40 CFR 268.7(a)]	<u> </u>	

### REMARKS

\* Any Waste Oil with no analyticals are sent to Safety Kleen as DOOI.

4.	Does or mo	the generator generate waste mixtures that are subject to two are different treatment standards? If so,	_1/_	<del></del>
	(a)	For mixed waste streams containing two or more concentration based treatment standards: Has the generator applied the more stringent treatment standard as the treatment standard for the mixture? [O.A.C. Rules 3745-59-41(B) and 3745-59-43(B); 40 CFR	N/A	
		268.41(b) and 268.43(b)]		
5.	Does from	the facility generate any listed waste(s) which are restricted land disposal? If so,	<u>N</u>	
	(a)	Do such wastes also exhibit hazardous waste characteristics as identified in 40 CFR 262.11?		
	(b)	For listed wastes which also exhibit characteristic(s), does the generator also identify the appropriate treatment standard for the constituent(s) which cause the waste to exhibit the characteristic(s)? [40 CFR 268.9]		
TREAT	IMENT	OF CHARACTERISTIC HAZARDOUS WASTE		•
6.	Does a RC	the generator treat any characteristic hazardous waste(s) in - RA-exempt unit to render such wastes non-hazardous? If so,	$\mathcal{N}$	
	(a)	ere treated waste(s) sent to a licensed solid waste disposal facility? If so,	NA	
		<ul> <li>i. With each shipment of waste, does the generator submit a notification and certification to the Regional Administrator which contains the following information:</li> </ul>		
		a. Name and address of the solid waste facility receiving the waste? [40 CFR 268.9(d)(l)(i)]		
		b. A description of the waste as initially generated, including EPA hazardous waste numbers and the treatability group? [40 CFR 268.9(d)(l)(ii)]	+-	
		c. The treatment standards applicable at the initial		
		point of generation? [40 CFR 268.9(d)(l)(iii)]	+	

NOTE: An example of a RCRA-exempt unit would include an elementary neutralization unit or a wastewater treatment unit as defined by O.A.C. Rule 3745-50-10. [See O.A.C. Rule 3745-65-01]

ester ---e the section of the . 

7.		astes that do not meet treatment standards: Does the ator notify the treatment or storage facility receiving		
	the wa	astes, in writing, that wastes being received do not meet ment standards? [O.A.C. Rule 3745-59-07(A)(1); 40 CFR	<u>Y</u>	
	(a) ;	Is such notification provided with each shipment of waste? [O.A.C. Rule 3745-59-07(A)(1); 40 CFR 268.7(a)(1)]	<u>Y</u>	
	(b) I	Does the notification contain the following information:		
		<pre>i. EPA hazardous waste number? [O.A.C. Rule 3745-59-07      (A)(1)(a); 40 CFR 268.7(a)(1)(i)]</pre>	<u> 4</u>	<u></u>
-		ii. Appropriate treatment standard for each waste? [O.A.C. Rule 3745-59-07(A)(1)(b); 40 CFR 268.7(a)(1)(ii)]	<u> </u>	
		iii. The manifest number associated with the shipment of waste? [O.A.C. Rule 3745-59-07(A)(1)(c); 40 CFR 268.7(a)(1)(iii)]	<u>- 4'</u>	
		iv. Waste analysis data, where available? [O.A.C. Rule 3745-59-07(A)(1)(d); 40 CFR 268.7(a)(1)(iv)]	<u>Y</u>	
8.	submi stora	rastes that meet treatment standards: Does the generator it a written notice and certification to the treatment, age or disposal facility receiving the waste statice that rastes being received meet applicable treatment star. ds?  C. Rule 3745-59-07(A)(2); 40 CFR 268.7(a)(2)]	<u>.v_</u>	
	If so	, does the notice include the following information:		
	(a)	EPA hazardous waste number? [O.A.C. Rule 3745-59-07 (A) (2) (a) (i); 40 CFR 268.7(a) (2) (i) (A)]	NA	
	(b)	The corresponding treatment standards and applicable prohibitions for the waste? [O.A.C. Rule 3745-59-07 (A) (2) (a) (ii); 40 CFR 268.7(a) (2) (i) (B)]	_	
	(c)	The manifest number associated with the shipment of waste? [O.A.C. Rule 3745-59-07(A)(2)(a)(iii); 40 CFR 268.7 (a)(2)(i)(C)]		
	(d)	Waste analysis data, where available? [O.A.C. Rule 3745-59-07(A)(2)(a)(iv); 40 CFR 268.7(a)(2)(i)(D)]		
	(e)	Is the certification signed by the generator or an authorized representative? [O.A.C. Rule 3745-59-07(A)(2)(b) 40 CFR 268.7(a)(2)(ii)]		

9.	or a to the	astes subject to a case-by-case extension, an exemption variance: Does the generator provide a written notice e facility receiving the waste that the waste is not bited from land disposal? [O.A.C. Rule 3745-59-07(A)(3); R 268.7(a)(3)]	<u> </u>
	If so	, does the notice contain the following information:	
	(a)	EPA hazardous waste number? [O.A.C. Rule 3745-59-07 (A) (3) (a); 40 CFR 268.7(a) (3) (i)]	N/A
	(b)	The corresponding treatment standard and applicable prohibitions? [O.A.C. Rule 3745-59-07(A)(3)(b); 40 CFR 268.7(a)(3)(ii)]	-
	(c)	The manifest number associated with the shipment of waste? [O.A.C. 3745-59-07(A)(3)(c); 40 CFR 268.7(a)(3)(iii)]	
	(d)	Waste analysis data, where available? [O.A.C. Rule 3745-59-07(A)(3)(d); 40 CFR 268.7(a)(3)(iv)]	
	(e)	The date the waste is subject to the prohibitions? [O.A.C. Rule $3745-59-07(A)(3)(e)$ ; 40 CFR $268.7(a)(3)(v)$ ]	
10.	Does	the generator retain on-site a copy of all notices,	

certifications, demonstrations and waste analysis data for at least five years? [3745-59-07(A)(6); 40 CFR 268.7(a)(6)]

REMARKS

BASED ON INFORMATION FOUND IN THIS INSPECTION, THE

FACILITY IN THE PAST HAD TRANSPORTED DOOF/DOOR

WASTE, FACILITY MAINTAINS THAT IT WAS NOT

HAD ARROWS WASTE.

OBC 3745-53 HAZARDOUS WASTE TRANSPORTER REQUIREMENTS

# REGISTRATION AND IDENTIFICATION REQUIREMENTS (OAC 3745-53-11)

Y/N/NA RMK #

	(OAC 3743-53-11)	
1.)	Has the entity registered with the Public Utilities Commission of Ohio as a transporter of hazardous waste? [3745-53-11]	<u>~</u>
	What is the entity's PUCO Number?	
2.	Has the transporter received a U.S. EPA ID number prior to transporting hazardous waste? [3745-53-11(D)]	<u> </u>
3.	Have all wastes accepted for transport by the transporter been accompanied by a manifest prepared by the generator in accordance with 3745-52? [3745-53-20(C)]	<u>~</u>
4.	Has the transporter signed the manifest as required by 3745-53-20 and carried the manifest with the waste shipment as required by 3745-53-20(C)?	<u> </u>
5.	Upon delivery of the hazardous waste to the next transporter or the designated facility, has the transporter signed the manifest as required by 3745-53-20(D)(1) and retained a signed copy for at least 3 years? [3745-53-22(A)]	<u>~</u>
6.	Has the transported delivered the entire quantity of waste accepted from the generator in accordance with manifest instructions?	<u>y</u> ,
	a. In cases where this was not possible, has the transporter contacted the generator for further instructions and revised the manifest accordingly? [3745-53-21(A)(B)]	<u>~/A</u>
7.	If hazardous waste has been delivered to rail or water transporters, has the original transporter complied with the manifest handling requirements of 3745-53-20(E)(F)?	N/A
8.	If hazardous waste has been shipped out of the country, has the transporter retained signed copies of the manifest for at least 3 years indicating that the waste left the U.S.A.? [3745-53-22(D)]	M/A

9.	Has the transporter ever had a discharge of hazardous waste during the time that the waste was under his control? If so,	UNKNOW
	a. Was immediate action taken? [3745-53-30(A)]	
	b. Were all of the notifications made as required by 3745-53-30(C)?	<del></del>
	c. Was the discharge cleaned up as required by 3745-53-21	
10.	Does the transporter store hazardous wastes temporarily while wastes are in transit? If so, are the following requirements met: [3745-53-12]	<u>~</u>
•	a. Are wastes stored for only 10 days or less?	~/A
	b. Do wastes remain properly DOT packaged during storage?	
INTE TRAN TRAN	ETEMPORARY STORAGE IN STATIONARY TANKS IS NOT PERMITTED UNLITY REQUIREMENTS AND SUCH STORAGE REQUIRES A RCRA PERMIT AND RIM STATUS REQUIREMENTS FOR STORAGE FACILITIES. ANY TYPE OF SPORTER WHICH IS NOT SPECIFICALLY AUTHORIZED UNDER OAC 3745-5 SFER FACILITY REQUIREMENTS, IS SUBJECT TO FULL RCRA REGULATION Does the transporter import hazardous waste to the United States?	SIS SUBJECT TO STORAGE BY THE 53-12 (263.12), DN.
12.	Does the transporter mix hazardous wastes of different US DOT descriptions by placing them into a single container?	<u> </u>
NOTE 3745	: A TRANSPORTER THAT IMPORTS HAZARDOUS WASTES OR MIXES WASTE -53-10(C) BECOMES A GENERATOR AND IS SUBJECT TO THE REQUIREME	ES AS DEFINED IN ENTS OF 3745-52.
13.	Does the transporter receive SQG wastes for transport pursuant to a reclamation agreement?	<u>~</u>
	If so, was the following information recorded in a log or shipping paper carried with the shipment as required by 3745-53-20(H):	
	a. Name, address and USEPA ID # of SQG?	N/A
	b. Quantity of waste?	
	c. DOT required shipping information?	
	d. Date waste accepted?	4

14. If the transporter receives SQG wastes for transport as described in Question 13, are records related to the shipments maintained for at least 3 years following expiration of the reclamation agreement?

[OAC 3745-53-20(H)(4)

NA

REMARKS - TRANSPORTER REQUIREMENTS

## RCRA INTERIM STATUS INSPECTION FORM

Pacility Name: American Steel Foundles  Address: LAKE PARK BLVDE EDWINTON  Address: LAKE PARK BLVDE EDWINTON  SEBRING TWP:  County: MAHONING  Facility Phone # (216)  Facility Contact: Bill Hess Tand, Safety ENV. Sagurate  Facility Contact Phone  Facility Contact Phone	7-497-587 823-6150 Kat Roduc Facility  Y BRADWAY, Facility ENG.
STATUS  Cond. Ex. SQG SQG Generator Transporter Treatment Storage  ACTIVITIES  Containers Tanks Surface Impoundments Incineration/Thermal treatme  Waste pile Land treatment Landfill X Groundwater monitoring X  Used oil burner Hazardous waste fuel burner/blender	Disposal_X
0350 011 2011-	Y/N/NA REMARK #
1. Does the facility produce "discarded materials" as defined in 3745-51-02(A)? Discarded materials Generated at 2. Are they: Production Facility (oHD 981909418).  a. Abandoned (disposed; incinerated; accumulated, stored, or treated prior to disposal)?	<u> </u>
<ul> <li>b.Recycled?</li> <li>c. Inherently waste-like?(F020,F021,F022,F023,F026,F028)?</li> <li>3. If recycled or accumulated, treated or stored before recycling, is the waste:</li> </ul>	
a. Used in a manner constituting disposal?  b. Burned for energy recovery?  c. Reclaimed? (Refer to Table 1 of 3745-51-02)  d. Accumulated speculatively?	
4. Is the material recycled by being:  a. Used or reused as an ingredient in an industrial process to make a product without prior reclamation?  b. Used as an effective substitute for commercial products?  b. Returned to the original process from which it was generated without prior reclamation as a substitute for a raw material	
without prior reclamation as a substitute 155 feedstock?	

4

		<u> </u>	227722 ;
	Are Land Disposal Restricted (LDR) wastes generated? If so, complete appropriate LDR checklist.	7	wifes a scholar paradoli
	Eas the facility submitted a Part A application to Ohio EPA in accordance with OAC 3745-50-40?	<u> </u>	*
	If yes, is it complete and accurate and does it contain all information specified in OAC 3745-50-41, -42, -43?		Accounting and Account of the Control of the Contro
	If not accurate, has a Permit Change Request (PCR) been submitted in accordance with 3745-50-51? If yes, what date was the PCR submitted.	NA	
	Is the facility operating in compliance with the terms and conditions of its HWFB permit?	-N	<u></u>
10.	Has the facility submitted a Part B?		15 HOURS
11.	Was advance notice of the inspection given? If so, how far in advance?	7	

\* According To June 124 1989 INSpection:

LANGETH PART A" Was Submitted in NOV. 1980 For A Disposal of Doob waste.
IN June 1982, ASF Requested USEPA WithDra

Waste Stream. US EPA Acknowledges Request in April 1983 Based on Information Submitted at that time.

Subsequent Sampling By USEPA CONFirmed Disposal of HAZardous Waste at this Facility.

REMARKS. GENERAL INFORMATION.

Include list of wastes being generated/managed at the site and a brief description of site activity and waste handling.

	7 3745-65-et sed. GENERAL FACILITY STANDARDS (40 CFR PRET 289, SUBJECT BY	-	
1		Y/N/NA	REMARK
l.	Does the owner/operator (o/o) have a detailed chemical and physical analysis of the waste material containing all of the information which must be known to properly treat or store the waste as required by 3745-65-13(A)(1) (265.13(a))?	y	
2.	Does o/o have a written waste analysis plan which describes analytical parameters, test methods, sampling methods, testing frequency and responses to any process changes that may affect the character of the waste. [3745-65-13(B)] (265.13(b))	N	مستستهمنسي
3.	equipment injure unknowing/unauthorized porosition (a) (1) (265.14(a)(1))	<u>Y</u>	
	entering the facility: [3,43-65-14(A)(2)]  b. Would disturbance of the waste cause a violation of the hazardous waste regulations? [3745-65-14(A)(2)] (265.14(a)(2))	1	
ĮF	F BOTH 3A AND 3B ARE NO, MARK QUESTIONS 4 AND 5 NOT APPLICABLE.		
4.	$\cdot$ . $\cdot$ .	$\mathcal{N}$	
	a. A 24-hour surveillance system, or b. An artificial or natural barrier and a means to control entry at all times [3745-65-14(B)(2)(a and b)] (265.14(b)(2))	<u> </u>	
5.	Does the facility have a sign *Danger-Unauthorized Personnel Keep Out* at each entrance to the active portion of the facility and at other locations as necessary. [3745-65-14(C)] (265.14(C))	7	
6	Has the o/o developed and followed a comprehensive, written inspection plan and documented the inspections, malfunctions and any remedial actions taken in an operating record log which is kept for at least three years. [3745-65-15] (265.15)	N	

Are areas subject to spills (i.e., loading and unloading areas, etc.) inspection daily when in use b. and according to other applicable regulations when not in use. [3745-65-16(B)(4)] (265.15(b)(4))

Has the o/o provided a Personnel Training Program in compliance with 3745-65-16(A)(B)(C) including instruction in safe equip-7. ment operation and emergency response procedures, training new employees within 6 months and providing an annual training program refresher course? (265.16(a)(b)(c))

Does o/o keep all records required by 3745-65-16(D)(E) including written job titles, job descriptions and documented 8. employee training records? (265.16(d)(e))

If Ignitable, Reactive or incompatible wastes are handled, does the facility meet the following requirements? 9. [3745-65-17] (265.17)

- Protection from sources of ignition.
- Physical separation of incompatible waste materials. A.
- "No Smoking" or "No Open Flames" signs near areas where ъ. Ignitable or Reactive wastes are handled. c.
- Comingling of waste materials is done in a controlled, safe manner as prescribed by 3745-65-17(B) (265.17(b) đ.

## NAC 3745-65 PREPAREDNESS AND PREVENTION (40 CFR PART 265 SUBPART C)

		Y/N/NA	REMARK #
	Is the facility operated to minimize the possibilty of fire, explosion, or non-planned release of hazardous waste? [3745-65-31] (265.31)	<u> </u>	
7 	Has there been a fire, explosion or non-planned release of waste at the facility?  a. If yes, has the contingency plan been implemented?	N	GRAVE CONCERNIA
3 -	If required due to actual hazards associated with the waste, does the facility have the following equipment: [3745-65-32(A)(B)(C)(D)] (265.32) a. Internal alarm system? b. Access to telephone, radio or other device for summoning emergency assistance? c. Portable fire control equipment? d. Water of adequate volume and pressure via hoses, sprinkler, foamers or sprayers?	NA Y NA NA	*
4.	Is all required spill control and decontamination equipment, fire and communications equipment tested and maintained as necessary? [3745-65-33] (265.33)	N	
5.	If required due to the actual hazards associated with the waste, do personnel have immediate access to an emergency communication device during times when hazardous waste is being physically handled? [3745-65-34] (265.34)	7	Radios
6.	If required due to the actual hazards associated with the waste, is adequate aisle space to allow unobstructed movement of emergency or spill control equipment maintained? [3745-65-35] (265.35)	NA	
7.	If required due to the actual hazards associated with the waste, has the facility attempted to make appropriate arrangements with local authorities to familiarize them with the possible hazards and the facility layout? [3745-65-37(A)] (265.37(a))	NA	

- 25 -

\* Radios in Trucks.

8. Where state or local emergency service authorities have declined to enter into any proposed special arrangements or agreements, has the refusal been documented. [3745-65-37(B)] (265.37(b))

NA \_\_\_

	Does the o/o have a written Contingency Plan designed to minimize hazards from fire, explosions or unplanned releases o hazardous wastes which contains the following components for t facility? [ $3745-65-52(A)(B)(C)(D)(\Sigma)$ ] ( $265.52$ ):	f ne
--	---	---------

- a. Actions to be taken by personnel in the event of an emergency incident?
- b. Arrangements or agreements with local or state emergency authorities?
- c. Names, addresses and telephone numbers of all persons qualified to act as emergency coordinator?
- d. A list of all emergency equipment including location, physical description and outline of capabilities?
- e. If required due to the actual hazards associated with the waste handled, an evacuation plan for facility personnel? [3745-65-52(F)] (265.52(f))?
- Is a copy of the Contingency Plan and any plan revisions maintained on-site and has it been submitted to all local and state emergency service authorities that might be required to participate in the execution of the plan? [3745-65-53(A)(B)] (265.53)
- 3. Is the plan revised in response to rule changes, facility, equipment and personnel changes or failure of the plan? [3745-65-54] (265.54)
- 4. Is an emergency coordinator who is familiar with all aspects of site operation and emergency procedures who has the authority to implement all aspects of the Contingency Plan designated at all times (on-site or on-call)? [3745-65-56(A-J)] (265.56)
  - 5. If an emergency situation has occurred, has the emergency coordinator implemented all or part of the Contingency Plan and taken all of the actions and made all of the notifications deemed necessary under 3745-65-56(A-J). (265.56(a-j))

- 27 -

\* No ContinbENCY PLAN & No Emergency Coordinator
For This Site.

# "AC 3745-65 MANIFEST SYSTEM/RECORDS/REPORTING (40 CFR PART 265, SUBPART E)

NOTE: THE FOLLOWING REQUIREMENTS ARE APPLICABLE TO BOTH ON-SITE AND OFF-SITE TREATMENT, STORAGE AND DISPOSAL FACILITIES.

## Y/N/NA REMARK #

£.	Description and quantity of each hazardous waste treated, stored or disposed of within the facility and the date and	11
	method pertinent to such treatment, storage or disposal?  [3745-65-73(B)(1)] (265.73(b)(1).	<del>~</del>
<b>b.</b>	[3745-65-73(B)(I)] (205:73(D)(L)  Common name, EPA Hazardous Waste Identification Number  and physical state (solid, liquid, gas) of the waste?  and physical state (solid, liquid, gas) or density of the	
c.	and physical state (solid, liquid, got, or density of the The estimated (or actual) weight, volume or density of the	
- •		+
d.	A description of the method(s) used to treat, store or dispose of the waste using the EPA handling codes listed in	
		+
e.	Table 2 of OAC 3/45? (Fart 200, approximately continuous for the present physical location of each hazardous waste within the facility?	
£.	Records of incidents which require implementation of the	
	Contingency Plan?	
g.		
	and cross-references to any pertinent manifest document	
h.	Records of any waste analyses and trial tests required	
	to be performed?	

required under other Subparts as referenced by

3745-65-73(B)(6);(265.73(b)(6))?

•			Y/N/NA	REMARK #
		ecords of closure cost estimates and post-closure DISPOSAL ONLY) cost estimates required under IAC 3745-66 (Part 265 Subpart G)?	SECTO SECTO	to suká
2.		o/o submitted an annual (bienniel) Treatment-Storage- Operating Report (by March 1) containing all of the information required under 3745-65-75 (265.75)?	N	<del>4</del>
NOTE:	THE FOLI	OWING REQUIREMENTS ARE APPLICABLE ONLY TO OFF-SITE TSDS.	. )	
3.	Is one co	Fests received by the facility signed and dated?  Opy given to the transporter, one copy sent to the  r within 30 days and one copy kept for at least 3 years?  -71(A)] (265.71)	$\frac{\mathcal{N}}{\mathcal{N}}$	
	1	If shipping papers are used in lieu of manifests (bulk shipments, etc.), are the same requirements met [3745-65-71(B)] (265.71(b))? Are any significant discrepancies in the manifest, as	NA	*
	1	Are any significant discrepancies in the land of the defined in 3745-65-72(A) (265.72(A)) noted in writing on the manifest document.	NA	1
4.		manifest discrepancies been reconciled within 15 days red by 3745-65-72(B) (265.72(b)) or has the o/o submitted ired information to the Director/Regional Administrator?	NA	
5.		acility has accepted any unmanifested hazardous wastes site sources for treatment, storage, or disposal, has ifested waste report containing all the information	<b>N</b> ) .	

required by 3745-65-76(A) (265.76) been submitted to the

Director/Regional Administrator within 15 days?

\* Shipping Papers and Manifest are NOT USED

## 0' 3745-66 CLOSURE AND POST-CLOSURE (40 CFR PART 265.

	Is a writ			nlan	on file	e a t	the	facil	ity	which
L.	Is a WILL	ten	CTOSUTE	hram		177	E 64	177î	1265	5.11217
-	Is a WILL	the	following	ig ele	ments:	[3/4	,J=0(	ر عد سر	( ~~ ~~	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

- A description of how each hazardous waste management unit will be closed in accordance with 265.111. 8.
- A description of how final closure will meet the ъ. requirements of 3745-66-11 (265.111).
- An estimate of the maximum amount of hazardous waste ever c. in inventory.
- A description of steps taken to remove or decontaminate facility equipment containment systems, structures, d. soils, and all hazardous waste residues.
- The year closure is expected to begin and a schedule e. for the various phases of closure.
- A description of other activities necessary to ensure f. closure with the performance standards including ground water monitoring, leachate collection, and run-off control.
- Has the closure plan (and post-closure plan, if applicable) been 2. amended 60 days prior to any changes in facility design, processes, or closure dates or 60 days after an unexpected event occurs which affects the closure plan? [3745-66-12(C)] (265.112(C))
- Has the closure plan (and post-closure plan, if applicable) for surface impoundment, waste pile, land treatment or landfill 3. units been submitted to the Director/Regional Administrator 180 days prior to beginning the closure process? [3745-66-12(D)] (265.112(d))
  - Has the closure plan (and post-closure plan, if applicable) for tank, containers storage or incinerator units been submitted to the Director/Regional Administrator 45 days prior to beginning the closure process? [-3745-66-12(D)] (265.112(d))

NA

Y/N/NA REMARK #

- 30 -

\* Closure has NOT been Initiated or interest.

At this time.

		IIMIMA	YTTELY F
5	Within 90 days of receipt of the final volume of waste or Director's plan approval, if that is later, was all hazardous waste treated, removed, or disposed in accordance with the approved plan? [3745-66-13(A)] (265.113(a))	NA	
6.	Was closure completed in accordance with the approved plan within 180 days after receipt of final volume of waste or approval of the plan, if that is later? [3745-66-13(B)] (265.113(b))	NA	•
7.	Did the owner/operator submit to the Director/Regional Administrator, within sixty (60) days after completion of closure, certification by both the owner/operator and an independent registered professional engineer that the facility has been closed in accordance with the approved closure plan? [3745-66-15] (265.115)	NA	
8.	Did the owner/operator submit to the local zoning authority and the Director/Regional Administrator a survey plant in accordance with OAC 3745-66-16?	M	
9.	What permitted units at the facility have been closed in accordance with an approved Closure Plan?	NON	<i></i>
10.	If closure was partial, list the regulated units which remain in use at the facility:	<u>1</u>	
1		_	
11.	If required, has the facility prepared a written post-closure plan [3745-66-18] (265.118)	<sup>2</sup> <del>N</del>	
12.	Does the post-closure plan include:		
	<ul> <li>A description of proposed ground water monitoring?</li> <li>A description of planned maintenance activities?</li> <li>The name, address and phone number of person/office to contact during the post-closure period?</li> <li>31 -</li> </ul>	#	

For disposal facilities, has the owner/operator submitted to local land authorities and the Director a survey plat within 60 days after MA certification of closure? [3745-66-19] (265.119)	
the property on which a disposal unit is located	

- 14. Has the owner of the property on which a disposal unit is located recorded on the deed that:
  - a. The land has been used to manage hazardous waste and the type, quantity and location of waste?
  - b. Land use is restricted pursuant to 3745-66-17? [3745-66-19] (265.119)

# AC 1745-68 LANDFILLS (40 CFR PART 265, SUBPART N)

		•	Y/N/NA	REMARK #
••	General followi	Operating Requirements. Does the facility provide the ng:		
	a.	Run-on control capable of handling a 24-hr, 25-yr storm? [3745-68-02(A)] (265.302(a))	$\mathcal{N}_{-}$	• .
	b.	Run-off control capable of handling a 24-mi, 25-72 below		
	c.	[3745-68-02(B) (265.502(B))  If run-off is hazardous waste, is it managed in accordance with applicable rules? [3745-68-02(B)]		
	d.	with applicable rules? (3/45-65-75)  Are facilities associated with run-on and run-off control systems managed to maintain design capacity after rain events? [3745-68-02(C)] (265.302(C))		-
	e.	events? [3745-68-02(C)] (205.502(C)) Control of wind dispersal of hazardous waste? [3745-68-02(D)] (265.302(d))		
2.	Surveyi [3745-6	ing and Recordkeeping. Does the operating record include: 68-09] (265.309)		
	a.	A map showing the exact location and dimensions of each ce [3745-68-09(A)] (265.309(a))		· <del>· · · · · · · · · · · · · · · · · · </del>
	ъ.	[3745-68-09(A)] (265.309(a)) The contents of each cell and the location of each hazardo waste type within each cell? [3745-68-09(B)] (265.309(b))	ν <u>.</u>	
3.	is no l	nitable or reactive wastes treated so the resulting mixture longer ignitable or reactive? [3745-68-12] (265.312(a)(b))	- /	
TOK TOK		TE IS RENDERED NON-REACTIVE OR NON-IGNITABLE, SEE TREATMENT ISIONS OF 3745-65-17 AND 3745-68-12(B) APPLY. (40 CFR 265.)	REQUIRE 17(b))	ments. If

·		AIMINY	<u>KENARA</u> F
٠.	Does the owner/operator dispose of incompatible wastes in separate cells? [3745-68-13] (265.313) If not, the provisions of 3745-68-15 apply. (265.17(b)	NA	
5.	Are empty containers crushed flat, shredded, or similarly reduced in volume before being buried beneath the surface of the landfill? [3745-68-15] (265.315)  Are containers at least 90% full prior to placement in the landfill	NA	*
б.	Are containers at least 90% full prior to practical	·	
7.	Is bulk or non-containerized liquid waste or waste containing free liquids treated so that free liquids are not longer present. [3745-68-14(A)] (265.314(a))	N	· · · · · · · · · · · · · · · · · · ·
	[3/43-00-17(A)] (	NA	
8.	Are containers other than lab packs, ampules, batteries or capacitors holding free liquids placed in the landfill?  [3745-68-14(B)] (265.314(b)) If yes, has all free liquid been	No	
9	[3745-68-14(B)] (265.314(b)) removed, absorbed or otherwise eliminated? removed, absorbed or otherwise eliminated? Has the owner/operator employed Method 9095 (Paint Filter Liquids Has the owner/operator employed Method 9095 (Paint Filter Liquids Has the owner/operator employed Method 9095 (Paint Filter Liquids Has the owner/operator employed Method 9095 (Paint Filter Liquids Has the owner/operator employed Method 9095 (Paint Filter Liquids Has the owner/operator employed Method 9095 (Paint Filter Liquids Has the owner/operator employed Method 9095 (Paint Filter Liquids Has the owner/operator employed Method 9095 (Paint Filter Liquids Has the owner/operator employed Method 9095 (Paint Filter Liquids Has the owner/operator employed Method 9095 (Paint Filter Liquids Has the owner/operator employed Method 9095 (Paint Filter Liquids Has the owner/operator employed Method 9095 (Paint Filter Liquids Has the owner/operator employed Method 9095 (Paint Filter Liquids Has the owner/operator employed Method 9095 (Paint Filter Liquids Has the owner/operator employed Method 9095 (Paint Filter Liquids Has the owner/operator employed Method 9095 (Paint Filter Liquids Has the owner/operator employed Method 9095 (Paint Filter Liquids Has the owner/operator employed Method 9095 (Paint Filter Liquids Has the owner/operator employed Method 9095 (Paint Filter Liquids Has the owner/operator employed Method 9095 (Paint Filter Liquids Has the owner/operator employed Method 9095 (Paint Filter Liquids Has the owner/operator employed Method 9095 (Paint Filter Liquids Has the owner/operator employed Method 9095 (Paint Filter Liquids Has the owner/operator employed Method 9095 (Paint Filter Liquids Has the owner/operator employed Method 9095 (Paint Filter Liquids Has the owner/operator employed Method 9095 (Paint Filter Liquids Has the owner/operator employed Method 9095 (Paint Filter Liquids Has the owner/operator employed Method 9095 (Paint Filter Liquids Has the owner/operator employed Method 9095 (Paint Filter Liquids Has the owner/ope	N	
10.	Are the special requirements for lab pack waste met? [3745-68-16] (265.316)	NA	
11.	Is a written closure/post-closure plan available for inspection at the facility? [3745-66-12] (265.112)	<i>N</i> .	
12.	Has the closure/post-closure plan been amended 60 days prior to any changes in facility design, or operation, or no later than 60 days after an unexpected event has occurred which has effected the closure plan? [3745-66-18(D)](265.118(d))	~	_
	<u>-</u> 51 -		
	wa	s in L	Bulk.

Placement in the Land Fill

Has the closure/post-closure plan been submitted to the Director/
Regional Administrator 180 days prior to beginning closure?
[3745-66-18(E)] (265.118(e))

NA \_\_\_\_

- 14. Does the plan contain information required in 3745-68-10? (265.310)
- <u>~</u> \*

- 15. Is a closure cost estimate available?
- 16. Has closure begun?
- 17. Has the property owner attached a notation to the property deed or other instrument which will notify any potential purchaser that the property has been used to manage hazardous waste and future use of the property is restricted under 3745-66-17(C) (265.117(c)) as required in 3745-66-19 (265.119(b))?

\* No plan

REPORT 07/11/89 07:35:16

ige 1	KEM:	RON		
ige i	c/14/00	07/11/8	39 07:35:16	
TO 18	io EPA DSHWM 00 Watermark Dr. 0. Box 1049	PREPARED BY	KEMRON ENVIRONMENTAL SERVICES 109 STARLITE PARK MARIETTA, OHIO 45750	CERTIFIED BY
Co	lumbus, OH 43266-0149 Isan Buchanan		(614) 373-4071	CONTACT H BUSKIRK
омрану Oh	CPA 56664 SAMPLES 4 nio EPA noo Watermark Dr.		PERFORMED IN ACCORDANCE WITH S	
/GIPILA TR	300 Watermark Dr.	* Analv	sis performed on DI EP-Toxicity	<u> пеасна се</u>
<u>Co</u>	olumbus, Ohio 43266-0149	(Ph	enol, CN, F)	
TRANS TYPE P.O. # 30 INVOJCE ur	390613-2/ American Steel	Silver	TEST CODES and NAMES used on	this report
L AGE OOR	3.0	<u>Arsenic</u>	, Total	
ASF 002 ASF 007 ASF 008	K890613-2 BA CD	Cadmiur	Total Total Total	RECEIVED
	<u>CN</u> CR	Chromi	ım, Total	JUL 14 1989
	EP_M F HG	Fluorio Mercur	icity Metals de y, Total le Organics	OHIO EPA-N.E.D.O.
	<u>M824</u>	0 voraci	n-t-1	-A
	<u>PB_F</u> <u>PHEN</u> SE	OL Phenol	rotar ics, Total um, Total	RECEIVED OHIO EPA
	.1			JUL 12 1989



KEMRON

'Age 1

)7 ASF-003

'eceived: 06/13/89

K890606-1

07/21/89 11:22:57

PREPARED KEMRON ENVIRONMENTAL SERVICES REPORT Ohio EPA DSHWM BY 109 STARLITE PARK TO 1800 Watermark Dr. MARIETTA, OHIO 45750 P.O. Box 1049 Columbus, OH 43266-0149 ATTEN ATTEN Susan Buchanan CONTACT H BUSKIRK PHONE (614) 373-4071 SAMPLES 7 CLIENT OEPA 56664 ALL WORK PERFORMED IN ACCORDANCE WITH STANDARD METHODOLOGY. COMPANY Ohio EPA ACILITY 1800 Watermark Dr. Columbus, Ohio 43266-0149 WORK ID K890606-1/ American Steel TAKEN TRANS TYPE P.O. # 308731/113088 INVOICE under separate cover TEST CODES and NAMES used on this report SAMPLE IDENTIFICATION EP MET EP Toxicity Metals )1 ASF-011 -Top- K890606-1 FLASH Flashpoint )1 ASF-011-Bottm- K890606-1 M8240 Volatile Organics RECEIVED K890606-1 )2 ASF-010 pH (Lab) PH L 13 ASF-009 K890606-1 JUL 28 1989 K890606-1 )4 ASF-006 K890606-1 15 ASF-005 OHIO EPA-N.E.D.O. 16 ASF-004 K890606-1

> RECEIVED OHIO EPA

JUL 26 1989



PA Method 245.1

EST CODE M8240

ST CODE AG NAME Silver, Total Method 200.7 (ICP) or 272.1 (AA - Direct Aspiration) NAME Arsenic, Total ST CODE AS A Method 206.3 (AA Vapor Hydride) ST CODE BA NAME Barium, Total A Method 200.7 - (ICAP) or 208.1 (AA - Direct Aspiration) ST CODE CD NAME Cadmium, Total A Method 200.7 (ICP) or 213.1 (AA - Direct Aspiration) ST CODE CN NAME Cyanide, Total A Method 335.2 Reflux, Spectrophotometric, Titrimetric NAME Chromium, Total ST CODE CR A Method 200.7 (ICP) or 218.1 (AA - Direct Aspiration) ST CODE EP MET NAME EP Toxicity Metals A Method 1310 (SW - 846)NAME Fluoride ST CODE F Fluoride Electrode A Method 340.2 NAME Mercury, Total EST CODE HG

(Cold Vapor)

NAME Volatile Organics

PA Method 8240 Volatile Organics - Purge and Trap

RECEIVED OHIO EPA

JUL 12 1989



KEMRON

REPORT

nge 13 nceived: 06/14/89 Test Methodology

ST CODE PB FU NAME Lead, Total

'A Method 239.2 AA Graphite Furnace

ST CODE PHENOL NAME Phenolics, Total

'A Method 420.1 Spectrophotometric Manual 4-AAP ith distillation

" RECEIVED OHIO EPA

JUL 12 1989

Work Order # M9-06-\*56

KEMRON

REPORT

Test Methodology

ST CODE EP MET NAME EP Toxicity Metals

(SW-846) Λ Method 1310

ceived: 06/13/89

ge 16

NAME Flashpoint ST CODE FLASH

A Method 1010 SW-846 (Pensky-Martens Closed-Cup)

ST CODE M8240 NAME Volatile Organics

A Method 8240 Volatile Organics - Purge and Trap

ST CODE PH L NAME PH (Lab)

A Method 150.1 - Electrometric

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**RECEIVED** 'OHIO EPA

JUL 26 1989





CLIENT:

Ohio EPA DSHWM

**REPORT NO.:** M9-06-143

## ANALYTICAL REPORT FORM

KEMRON = SAMPLE #	CLIENT IDENTIFICATION	RESULTS OF ANALYSIS
		PAINT FILTER LIQUID TEST
06-143-04	ASF-006 - K890606-1	NO
06-143-05	ASF-005 - K890606-1	YES
06-143-06	ASF-004 - K890606-1	NO
06-143-07	ASF-003 - K890606-1	ИО

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JUL 26 1989

re 2 reived: 06/14/89 KEMRON

REPORT

Work Order # M9-06-16-

Results by Sample

SAMPLE ID ASF 001 K890613-2 SAMPLE # 01 FRACTIONS: A,B

Date & Time Collected 06/09/89 12:08:00 Category WATER

0.85 CD <0.01 CR <0.02 HG <0.0005

 <0.01</th>
 AS
 0.01
 BA
 0.86
 CD
 <0.01</th>
 CR
 <0.02</th>
 HG
 <0.005</th>

 mg/l Ag
 mg/l As
 mg/l Ba
 mg/l Cd
 mg/l Cr
 mg/l Hg

mg/l Pb mg/l Se

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RECEIVED OHIQ EPA

JUL 12 1989



Results by Sample

K890613-2 TPLE ID ASF 001

:eived: 06/14/89

19 3

TEST CODE M8240 NAME Volatile Organics FRACTION 01A Category WATER Date & Time Collected 06/09/89 12:08:00

FILE #: 20E7197

INJECTD: 06/15/89 FACTOR: 1 UNITS: ug/L VERIFIED: DMD ANALYST: FSA INSTRMT: FINN2



caivad: 06/14/89

KEMRON

REPORT Results by Sample

Work Order # M9-06-16\_ Continued From Above

MPLE ID ASF 001 K890613-2 FRACTION 01A

TEST CODE M8240 NAME Volatile Organics Date & Time Collected 06/09/89 12:08:00

Category WATER

CAS# 108-88-3 79-34-5 108-90-7 100-41-4 100-42-5	COMPOUND Toluene 1,1,2,2,-Tetrachloroethane Chlorobenzene Ethyl benzene Styrene	RESULT BDL BDL BDL BDL	8	LIMIT 5 5 5 5 5 5 5
1330-20-7	Xylenes (Total)		12	5

SURROGATES 97 % Recovery 1,2-Dichloroethane-d4 98 % Recovery Toluene-d8 93 % Recovery p-Bromofluorobenzene

> ... RECEIVED OHIO EPA

JUL 12 1989

DIV. of SOLID & HAZ. WASTE MGT.



OTES AND DEFINITIONS FOR THIS REPORT DET LIMIT = DETECTION LIMIT BDL = BELOW DETECTION LIMIT \* = SEMI-QUANTITATIVE SCREEN ONLY

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Page 5 Received: 06/14/89

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KEMRON

REPORT

Work Order # M9-06. .66

Results by Sample

SAMPLE # 02 FRACTIONS: A,B K890613-2 SAMPLE ID ASF 002 Date & Time Collected 06/09/89 12:29:00 Category WATER 0.2 HG 0:01 CR 0.30 CD 0.02 BA <0.01 A8 mg/l Hg λG mg/l Cr mg/l Cd mq/l Ba mg/1 As mg/l Ag<0.004 8E PB FU 0.03 mq/l Se mg/l Pb

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JUL 12 1989

KEMRON\_

REPORT

Results by Sample

ge 6 ceived: 06/14/89

MPLE ID ASF 002

K890613-2

FRACTION <u>02A</u> TEST CODE <u>M8240</u> NAME <u>Volatile Organics</u>
Date & Time Collected <u>06/09/89 12:29:00</u> Category <u>WATER</u>

FILE #: 20E7199 ANALYST: JLJ VERIFIED: DMD ug/L UNITS: 1 INJECTD: 06/15/89 FACTOR: INSTRMT: FINN2 DET LIMIT RESULT COMPOUND CAS# 10 BDL Chloromethane 74 - 87 - 310 BDL Bromomethane 74-83-9 10 Vinyl chloride BDL 75-01-4 10 BDL Chloroethane 75-00-3 5 Methylene chloride BDL 75-09-2 10 490000 Acetone 67-64-1 5 BDL Carbon disulfide 75-15-0 5 1,1-Dichloroethene BDL 75-35-4 5 1,1-Dichloroethane BDL75-34-3 5 1,2-Dichloroethene (total) BDL 540-59-0 5 Chloroform BDL 67-66-3 5 BDL 1,2-Dichloroethane 107-06-2 10 BDL 2-Butanone 78-93-3 5 1,1,1-Trichloroethane BDL 71-55-6 5 Carbon tetrachloride BDL56-23-5 10 BDL Vinvl acetate 108-05-4 5 Bromodichloromethane BDL 75-27-4 5 1,2-Dichloropropane BDL78-87-5 5 cis-1,3-Dichloropropene BDL 10061-01-5 5 Trichloroethene BDL 79-01-6 5 BDLDibromochloromethane RECEIVED 124-48-1 5 1,1,2-Trichloroethane BDLOHIO EPA 7,9-00-5 BDL Benzene 71-43-2 5 BDL trans-1,3-Dichloropropene JUL 12 1989 10061-02-6 10 BDL2-Chloroethyl vinyl ether 110-75-8 5 Bromoform BDL75-25-2 10 DIV. of SOLID & HAZ. WASTE MGT. BDL 2-Hexanone 591-78-6 10 . BDL4-Methyl-2-pentanone 108-10-1 5 Tetrachloroethene BDL 127-18-4



'age 7 teceived: 06/14/89

AMPLE ID ASF 002

KEMRON

REPORT

Work Order # M9-06-166 Continued From Above

Results by Sample

K890613-2

TEST CODE M8240 NAME Volatile Organics Date & Time Collected 06/09/89 12:29:00

Category WATER

CAS# 108-88-3 79-34-5 108-90-7 100-41-4 100-42-5	COMPOUND Toluene 1,1,2,2,-Tetrachloroethane Chlorobenzene Ethyl benzene Styrene	RESULT BDL BDL BDL BDL BDL	DET 15	LIMIT 5 5 5 5 5 5 5
1330-20-7	Xylenes (Total)	BDL		5

FRACTION 02A

SURROGATES 85 % Recovery 1,2-Dichloroethane-d4 94 % Recovery Toluene-d8 78 % Recovery p-Bromofluorobenzene

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JUL 12 1989

DIV. of SOLID & HAZ. WASTE MGT.

NOTES AND DEFINITIONS FOR THIS REPORT DET LIMIT = DETECTION LIMIT BDL = BELOW DETECTION LIMIT \* = SEMI-QUANTITATIVE SCREEN ONLY



KEMRON

REPORT

Work Order # M9-06-143

Results by Sample

SAMPLE ID ASF-003

Received: 06/13/89

K890606-1

FRACTION <u>07A</u> TEST CODE <u>EP MET</u> NAME <u>EP Toxicity Metals</u>
Date & Time Collected <u>06/09/89 12:43:00</u> Category <u>8LUDGE</u>

EP TOXICITY TEST

UNITS: MG/L VERIFIED: RJW RCRA LIMIT RESULT CONTAMINANT EPA# 5.0 <0.04 Arsenic D004 100.0 Barium 0.13 D005 1.0 Cadmium <0.01 D006 5.0 Chromium <0.02 D007 5.0 <0.2 Lead D008 0.2 <0.001 Mercury D009 1.0 <0.04 Selenium D010 Silver 5.0 <0.04 D011

NOTES AND DEFINITIONS FOR THIS REPORT.

NA = NOT ANALYZED

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KEMRON

REPORT

Work Order # M9-( 143

Results by Sample

Received: 06/13/89 K890606-1 SAMPLE ID ASF-003

Date & Time Collected 06/09/89 12:43:00 Category SLUDGE

FLASH Degrees C

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JUL 26 1989



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SAMPLE ID ASF-004

REPORT KEMRON Results by Sample

Work Order # M9-06-143

K890606-1

FRACTION 06A TEST CODE EP MET NAME EP Toxicity Metals Date & Time Collected 06/09/89 11:08:00

Category **SLUDGE** 

EP TOXICITY TEST

UNITS: MG/L

VERIFIED: RJW

AEKTETED:				
VERTI XIII.	RCRA LIMIT	RESULT	CONTAMINANT	EPA#
	5.0	<0.04	Arsenic	D004
	100.0	<0.01	Barium	D005
	1.0	0.03	Cadmium	D006
	5.0	<0.02	Chromium	D007
	5.0	<0.2	Lead	D008
	0.2	<0.001	Mercury	D009
	1.0	<0.04	Selenium	D010
	5.0	<0.04	Silver	D011

NOTES AND DEFINITIONS FOR THIS REPORT. NA = NOT ANALYZED

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Page 12 Received: 06/13/89 KEMRON

K890606-1

REPORT

Work Order # M9-06-143

Results by Sample

SAMPLE # 06 FRACTIONS: A

Date & Time Collected 06/09/89 11:08:00 Category SLUDGE

FLASH \_\_\_\_\_\_46

SAMPLE ID ASF-004

Degrees C

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REPORT

Work Order # M9-06-143

Results by Sample

SAMPLE ID ASF-005 K890606-1

FRACTION <u>05A</u> TEST CODE <u>EP MET</u> NAME <u>EP Toxicity Metals</u>
Date & Time Collected <u>06/09/89 13:18:00</u> Category <u>LIQUID</u>

EP TOXICITY TEST

UNITS: MG/L

EPA#

CONTAMINANT RESULT RCRA LIMIT

5.0 <0.04 Arsenic D004 0.28 100.0 Barium D005 <0.01 1.0 Cadmium D006 5.0 Chromium <0.02 D007 5.0 Lead <0.2 D008 0.001 0.2 Mercury D009 1.0 Selenium <0.04 D010 Silver <0.04 5.0 D011

NOTES AND DEFINITIONS FOR THIS REPORT. NA = NOT ANALYZED

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KEMRON

REPORT

Work Order # M9-6 -143

Results by Sample

SAMPLE ID ASF-005 K890606-1 SAMPLE # 05 FRACTIONS: A

Date & Time Collected 06/09/89 13:18:00 Category LIQUID

FLASH\_\_\_\_\_53

Received: 06/13/89

Degrees C

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JUL 26 1989



SAMPLE ID ASF-006

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FRACTION 04A

REPORT

Date & Time Collected 06/09/89 13:38:00

Work Order # M9-0-143

Results by Sample

TEST CODE EP MET NAME EP Toxicity Metals
lected 06/09/89 13:38:00 Category SLUDGE

EP TOXICITY TEST

K890606-1

UNITS: MG/L				VERIFIED: RJW
EPA#	CONTAMINANT	RESULT	RCRA LIMIT	
D004	Arsenic	<0.04	5.0	
D005	Barium	0.14	100.0	
D006	Cadmium	<0.01	1.0	
D007	Chromium	<0.02	5.0	
D008	Lead	<0.2	5.0	
D009	Mercury	<0.001	0.2	
D010	Selenium	<0.04	1.0	
D011	Silver	<0.04	5.0	

NOTES AND DEFINITIONS FOR THIS REPORT.

NA = NOT ANALYZED

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F.P. = 51°F



KEMRON

REPORT

Work Order # M9-0 166

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ceived: 06/14/89

Results by Sample

SAMPLE # 03 FRACTIONS: A K890613-2 SAMPLE ID ASF 007

Date & Time Collected 06/09/89 14:00:00 Category SOLID

PHENOL <0.002 \* 0.3 \* <0.01 \* CN mg/l F mg/l CN

.1

mg/l Phenol

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DIV. of SOLID'S HAZ WASTE MGT



KEMRON REPORT Results by Sample

remixed: 06/14/89

MPLE ID ASF 007 K890613-2 FRACTION 03A TEST CODE EP MET NAME 1

Date & Time Collected 06/09/89 14:00:00

TEST CODE EP MET NAME EP Toxicity Metals
lected 06/09/89 14:00:00 Category SOLID

EP TOXICITY TEST

UNITS: MG/L				VERIFIED:	RJW
	CONTAMINANT	RESULT	RCRA LIMIT		
EPA#	Arsenic	<0.04	5.0		
D004	•		100.0		٠.
D005	Barium	0.18	100.0		
	Cadmium	<0.01	1.0		
D006			5.0		
D007	Chromium	<0.02			
	Lead	<0.2	5.0		
D008		<0.001	0.2		
D009	Mercury	<0.00x			
D010	Selenium	<0.04	1.0		
D010	silver	<0.04	5.0		
D011	Salver	70101			

NOTES AND DEFINITIONS FOR THIS REPORT.
NA = NOT ANALYZED

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JUL 12 1989



REPORT Work Order # M9-0 166

rage 10 leceived: 06/14/89 KEMRON

Results by Sample

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REPORT Work Order # M9-06 166

KEMRON

Results by Sample

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SAMPLE ID ASF 008 K890613-2

FRACTION <u>04A</u> TEST CODE <u>EP MET</u> NAME <u>EP Toxicity Metals</u>
Date & Time Collected <u>06/09/89 14:15:00</u> Category <u>80LID</u>

EP TOXICITY TEST

UNITS: MG/L				VERIFIED: RJW
EPA#	CONTAMINANT	RESULT	RCRA LIMIT	
D004	Arsenic	<0.04	5.0	
D005	Barium	0.1	100.0	
D006	Cadmium	<0.01	1.0	
D007	Chromium	<0.02	5.0	
D008	Lead	<0.2	5.0	
D009	Mercury	<0.001	0.2	
D010	Selenium	<0.04	1.0	
D011	Silver	<0.04	5.0	

NOTES AND DEFINITIONS FOR THIS REPORT.

NA = NOT ANALYZED

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JUL 12 1989



	KE	MRON Results by	REPORT sample	Work	Order # M	9-06-243
SAMPLE ID ASF-010	K890606-1		FRACTIONS: A Collected 06/09/89	14:50:00	Category	LIQUID
FLASH>95 Degrees C						
SAMPLE ID ASF-009	K890606-1	SAMPLE # <u>03</u> Date & Time	FRACTIONS: A Collected 06/09/8	9	Category	FIORID
PH_L 10.4 S.U.		·				
SAMPLE ID ASF-006	K890606-1	SAMPLE # 04 Date & Time	FRACTIONS: A Collected 06/09/8	39 13:38:00	Category	<u>SLUDGE</u>
FLASH 51 Degrees C						

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JUL 26 1989



KEMRON

REPORT

Results by Sample

Received: 06/13/89

SAMPLE ID ASF-011 -Top- K890606-1 FRACTION 01A TEST CODE M8240 NAME Volatile Organics

Date & Time Collected 06/09/89 15:26:00 Category LIQUID

ANALYST: SPL INSTRMT: FINN2	FILE #: 20 INJECTD: 06/19/89 FACTOR:	DE7229 5	UNITS	:	mg/L
CAS#	COMPOUND	RESULT	DET	LIMIT	THE PARTY OF THE P
74-87-3	Chloromethane	BDL		50	VERIFIED: DMD
74-83-9	Bromomethane	$\mathtt{BDL}$		50	3
75-01-4	Vinyl chloride	$\mathtt{BDL}$		50	
75-00-3	Chloroethane	BDL		50	
75-09-2	Methylene chloride		400	30	
67-64-1	Acetone		500	50	
75-15-0	Carbon disulfide	${f BDL}$		30	
75-35-4	1,1-Dichloroethene		200	30	
75-34-3	1,1-Dichloroethane	$\mathtt{BDL}$		30	
540-59-0	1,2-Dichloroethene (total)	$\mathtt{BDL}$		30	
67-66-3	Chloroform	$\mathtt{BDL}$		30	•
107-06-2	1,2-Dichloroethane	BDL		30	
78-93-3	2-Butanone	$\mathtt{BDL}$		50	
71-55-6	1,1,1-Trichloroethane		850	30	
56-23-5	Carbon tetrachloride	$\mathtt{BDL}$		30	
108-05-4	Vinyl acetate	$\mathtt{BDL}$		50	
75-27-4	Bromodichloromethane	${f BDL}$	•	30	
78-87-5	1,2-Dichloropropane	$\mathtt{BDL}$		30	
10061-01-5	cis-1,3-Dichloropropene	$\mathtt{BDL}$		30	
79-01-6	Trichloroethene	BDL		30	
124-48-1	Dibromochloromethane	$\mathtt{BDL}$		30	
79-00-5	1,1,2-Trichloroethane	$\mathtt{BDL}$		30	
71-43-2	Benzene	$\mathtt{BDL}$		30	MN (A) and
10061-02-6	trans-1,3-Dichloropropene	$\mathtt{BDL}$		30	RECEIVED
110-75-8	2-Chloroethyl vinyl ether	$\mathtt{BDL}$		50	OHIO EPA
75-25-2	Bromoform	$\mathtt{BDL}$		30	
591-78-6	2-Hexanone	$\mathtt{BDL}$		50	* JUL 2 6 1989
108-10-1	4-Methyl-2-pentanone	$\mathtt{BDL}$		50	00L 20 1989
127-18-4	Tetrachloroethene		1400	30	
108-88-3	Toluene		290	30	DIV. of SOLID & HAZ. WASTE MGT.
79-34-5	1,1,2,2,-Tetrachloroethane		210	30	THE WASIEMGT.
108-90-7	Chlorobenzene	$\mathtt{BDL}$		. 30	



REPORT

Work Order # M9-0/ 143 Continued From C 3

Results by Sample

Page 4 Received: 06/13/89

SAMPLE ID ASF-011 -Top- K890606-1

FRACTION <u>01A</u> TEST CODE <u>M8240</u> NAME <u>Volatile Organics</u>
Date & Time Collected <u>06/09/89 15:26:00</u> Category <u>LIQUID</u>

	COMPOUND	$\mathtt{RESULT}$	DEL LIMIL
CAS#	<del>-</del> +	BDL	30
100-41-4	Ethyl benzene	BDL	30
100-42-5	Styrene	740	30
1330-20-7	Xylenes (Total)	740	3.0

NOTES AND DEFINITIONS FOR THIS REPORT

DET LIMIT = DETECTION LIMIT

BDL = BELOW DETECTION LIMIT

\* = SEMI-QUANTITATIVE SCREEN ONLY

.

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JUL 26 1989



Page 2 Received: 06/13/89 KEMRON

REPORT

Work Order # MS L 143

Results by Sample

SAMPLE ID ASF-011 -Top- K890606-1

SAMPLE # <u>01</u> FRACTIONS: <u>A</u>
Date & Time Collected <u>06/09/89 15:26:00</u> Category <u>LIQUID</u>

PLASH

Degrees C

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\* JUL 26 1989



REPORT KEMRON Results by Sample

Received: 06/13/89

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SAMPLE ID ASF-011-Bottm- K890606-1

FRACTION <u>01B</u> TEST CODE <u>M8240</u> NAME <u>Volatile Organics</u>
Date & Time Collected <u>06/09/89 15:26:00</u> Category <u>LIQUID</u>

'tr	" •	057001		ľ
ANALYST: PJK INSTRMT: FINN2	FILE #: 2 INJECTD: 06/16/89 FACTOR:	OE/221 5 UNITS:	ug/L	VERIFIED: DMD
CAS#	COMPOUND	RESULT DET	LIMIT	
74-87-3	Chloromethane	BDL	50	
74-83-9	Bromomethane	$\mathtt{BDL}$	50	
75-01-4	Vinyl chloride	BDL	50	
75-00-3	Chloroethane	BDL	50	
75-00-3 75-09-2	Methylene chloride	18000	30	
67-64-1	Acetone	2700	50	
75-15-0	Carbon disulfide	BDL	30	
75-35-4	1,1-Dichloroethene	150	30	
	1,1-Dichloroethane	BDL	30	
75-34-3	1,2-Dichloroethene (total)	$\mathtt{BDL}$	30	•
540-59-0 67-66-3	Chloroform	$\mathtt{BDL}$	30	
107-06-2	1,2-Dichloroethane	$\mathtt{BDL}$	30	
78-93-3	2-Butanone	BDL	5 <b>0</b>	
71 <b>-</b> 55-6	1,1,1-Trichloroethane	140	30	
56 <b>-</b> 23 <b>-</b> 5	Carbon tetrachloride	$\mathtt{BDL}$	30	
108-05-4	Vinyl acetate	BDL	50	•
75-27-4	Bromodichloromethane	$\mathtt{BDL}$	30	
78-87-5	1,2-Dichloropropane	$\mathtt{BDL}$	30	
10061-01-5	cis-1,3-Dichloropropene	$\mathtt{BDL}$	30	
79-01-6	Trichloroethene	BDL	30	
124-48-1	Dibromochloromethane	$\mathtt{BDL}$	30	e y Processa
79-00-5	1,1,2-Trichloroethane	$\mathtt{BDL}$	30	RECEIVED
71-43-2	Benzene	$\mathtt{BDL}$	30	OHIO EPA
10061-02-6	trans-1,3-Dichloropropene	BDL	30	
110-75-8	2-Chloroethyl vinyl ether	BDL	50	JUL 26 1989
75-25-2	Bromoform	$\mathtt{BDL}$	30	002 8 0 1303
591 <b>-</b> 78-6	2-Hexanone	BDL	50	
108-10-1	4-Methyl-2-pentanone	$\mathtt{BDL}$	50	DIV. of SOLID & HAZ. WASTE MGT.
127-18-4	Tetrachloroethene	1200	30	· — · · · · · · · · · · · · · · · · · ·
16, 10 4				

ngm 7 ncmived: 06/13/89

AMPLE ID ASF-011-Bottm- K890606-1

KEMRON REPORT Results by Sample

Work Order # M9-06-143 Continued From Above

FRACTION <u>01B</u> TEST CODE <u>M8240</u> NAME <u>Volatile Organics</u>
Date & Time Collected <u>06/09/89 15:26:00</u> Category <u>LIQUID</u>

150 46 OL OL	30 30 30 30 30 30
)]	46 5 6

JUL 26 1989

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OHIO EPA

NOTES AND DEFINITIONS FOR THIS REPORT

DET LIMIT = DETECTION LIMIT

BDL = BELOW DETECTION LIMIT

\* = SEMI-QUANTITATIVE SCREEN ONLY



Page 5 Received: 06/13/89 KEMRON

REPORT

Work Order # M9-06-143

Results by Sample

SAMPLE # 01 FRACTIONS: B

Date & Time Collected 06/09/89 15:26:00 Category LIQUID

FLASH

Degrees C

SAMPLE ID ASF-011-Bottm- K890606-1

RECEIVED OHIO EPA

JUL 26 1989



# QUALITY ASSURANCE DAILY REPORT

Laboratory:	Ohio	Valley						Date:	06/14/89	
	*		REFERI	ENCE STA	ANDARD		DUPLICA'	re sampli	E	
Parameter	Units	Analyst	Known	Result	UCLx	LCLx	Resultl	Result2	Range	UCLr
IRON-ICP	mg/1	JKM	1.04	1.04			0.129			*
SULFATE	mg/l	WMW	2Ø	19	25.3		48			* .
MERCURY-CV	mg/1	JKM	0.01	0.0109	0.013	0.007		Ø		*
TIN-FURNACE	mg/l	JKM	Ø.Ø5	0.054	*	*	Ø	0.001		*
PHENOLICS	mg/1	DIH	Ø.5	0.482	0.55	0.451	1.1			*
ALUMINUM-ICP	mg/l	JKM	1	1.1	1.34	Ø.983	0.181			*
ANTIMONY-ICP	mg/l	JKM	1	0.973	1.137	0.909	0.021			*
BARIUM-ICP	mg/1	JKM	1.02	0.975	*	*	0.026			*
CALCIUM-ICP	mq/1	JKM	10.1	10	10.7	9.71			Ø <b>.9</b> 5	*
CADMIUM-ICP	mg/l	JKM	1	Ø.942	*	*	Ø	Ø		*
CHROMIUM-ICP	mg/1	JKM	1.02	1.01	*	*	0.011	Ø.011	Ø	*
COPPER-ICP	mg/1	JKM	1.02			*	0.004	0.004		*
IRON-ICP	mg/1	JKM	1.04			0.972	0.084	0.077	0.007	*
MAGNESIUM-ICP	mg/l	JKM	10				14.722	14.25	Ø.472	*
MANGANESE-ICP	mg/l	JKM	1.04			1.007	0.005	0.005	Ø	*
NICKEL-ICP	mg/1	JKM	1			*	0.003	0.001	0.002	*
SILVER-ICP	mg/l	JKM	ø.2			*	-0.001	Ø	0.001	*
SODIUM-ICP	mg/l	JKM	10.1			*	27.194	26.25	Ø.944	• *
	mg/l	JKM	1			*	0.024	0.027	0.003	*
ZINC-ICP BOD	mg/l	SMC/DIH	_			167	790	840	50	*

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DIV. of SOLID & HAZ. WASTE MGT.

UCLx = Upper Control Limit (Standard)

LCLx = Lower Control Limit (Standard) UCLr = Upper Control Limit (Range)
\* = Initial Data Collection

#### QUALITY ASSURANCE DAILY REPORT

Laboratory:

Ohio Valley

Date:

06/14/89

	i.		METHOD BLA	ANK	MATRIX	K/MEDIA SI	PIKE		
Parameter	Units	Analyst	Result	UCLb	Conc.	Recovery	Rec.(%)	UCLs(%)	LCLs(%)
IRON-ICP	mg/l	JKM	0.007	*	1.04	1.07	103	*	*
SULFATE	mg/1	WMV.	Ø	*	10	8.4	84	*	*
MERCURY-CV	mg/1	JKM	Ø	*	0.01	0.0101	101	*	*
TIN-FURNACE	mg/l	JKM	Ø	*	0.05	0.039	78	*	*
PHENOLICS	mg/l	DIH	0.001	*	Ø.5	Ø.486	97	*	*
ALUMINUM-ICP	mg/1	JKM	0.003	*	1	0.928		*	*
ANTIMONY-ICP	mg/1	JKM	0.021	*	1	Ø.859	86		*
BARIUM-ICP	mg/1	JKM	0.007	*	1.02	Ø.863	85		*
CALCIUM-ICP	mg/l	JKM	0.023	*	10.1	. 8	79		*
CADMIUM-ICP	mg/1	JKM	0.002	*	1	Ø.85	85	*	*
CHROMIUM-ICP	mg/1	JKM	0.001	*	1.02	0.933			*
COPPER-ICP	mg/1	JKM	0.003	*	1.02	Ø.881	86	*	*
IRON-ICP	mg/l	JKM	0.006	*	1.04	0.907	87	*	*
MAGNESIUM-ICP	mg/l	JKM	0.018	*	10	11.8	118	*	*
MANGANESE-ICP	mg/1	JKM	0.002	*	1.04	Ø.946			*
NICKEL-ICP	mg/1	JKM	0.003	*	1	Ø.864			*
SILVER-ICP	mg/l	JKM	-0.001	*	Ø.2	Ø <b>.</b> 157	79	*	*
SODIUM-ICP	mg/l	JKM	0.031	*	10.1	9.1	90	*	*
ZINC-ICP	mg/l	JKN	Ø.007	*	1	Ø <b>.</b> 875	88	*	*
BOD	mg/l	SMC/DIH		* -	200	203	102	*	*

RECEIVED OHIO EPA

JUL 12 1989

DIV. of SOLID & HAZ. WASTE MGT.

ÚCLb = Upper Control Limit (Blank)

UCLs = Upper Control Limit (Spike Recovery) LCLs = Lower Control Limit (Spike Recovery)

\* = Initial Data Collection

# QUALITY ASSURANCE DAILY REPORT

aboratory:

Ohio Valley

Date:

06/15/89

	<u>.</u>		REFERE	ENCE STA	ANDARD		DUPLICAT	TE SAMPLE	÷	
Parameter	Units	Analyst	Known	Result	UCLx	LCLx	Resultl	Result2	Range 1	JCLr
COD	mg/l	DIH	64	68.2	76.8	51.2	520	580	60	* *
TOC	mg/l	DIH	50	51.6	53.4	46.4	160	160	Ø	*
CYANIDE	mg/1	DIH	Ø.2	Ø.176	Ø.213	0.14				*
CHROMIUM VI	mg/l	SMC	0.1	Ø.Ø98	0.104	Ø.082	Ø.Ø1	Ø.Øl	Ø	*
MERCURY-CV	mq/1	JKM	0.01	0.0114	0.013	0.007	Ø	Ø	0	*
BARIUM-ICP	mg/l	JKM	1.02	Ø.984	*	*	0.029	0.028	0.001	*
CADMIUM-ICP	mq/1	JKM	1	Ø.957	*	*	0.001	Ø	0.001	*
CHROMIUM-ICP	mg/l	JKM	1.02	1.02	*	*	0.012	0.012	Ø	*
SILVER-ICP	mg/l	JKM	Ø.2	0.175	*	*	0.001	Ø	0.001	*
OIL AND GREASE	mg/l	SMC	10	7.9	10.2	8.4	. 8	8	Ø	*
ARSENIC-VH	mq/1	JKM	0.051	0.0481	*	*	6.0007	0.0008	0.0001	*
LEAD-FLAME	mg/l	JKM	1.02	1.02	*	*	-0.01	-Ø.Ø125	0.0025	*
AMMONIA	mg/l	WMW	10	9.91	10.7	9.2	Ø	Ø	Ø	*

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JUL 12 1989

DIV. of SOLID & HAZ. WASTE MGT.

UCLx = Upper Control Limit (Standard) LCLx = Lower Control Limit (Standard)

UCLr = Upper Control Limit (Range)

\* = Initial Data Collection

# QUALITY ASSURANCE DAILY REPORT

Laboratory:

Ohio Valley

Date: 06/15/89

	<u>.</u>		METHOD BLA	NK		/MEDIA SF			
Parameter	Units	Analyst	Result	UCLb		Recovery			LCLs(%)
		DIII		*	160	215	134	*	*
COD	mg/l	DIH	ø.ø8	*	25	18.1	72	*	
TOC	mg/1	DIH		*				*	*
CYANIDE	mg/l	DIH	0.001	*	Ø.1	ø.098	98	*	*
CHROMIUM VI	mg/1	SMC	0.01		0.01		113	*	*
MERCURY-CV	mg/1	JKM	-0.0002	*			99	*	*
BARIUM-ICP	mg/1	JKM	0.012	*	1.02		101		*
	mg/1	JKM	0.002	*	<u> </u>	1.013			*
CADMIUM-ICP	mg/1	JKM	Ø	*	1.02				*
CHROMIUM-ICP		JKM	-0.902	*	Ø.2				*
SILVER-ICP	mg/l		1.6	*	10	7.7			*
OIL AND GREASE	mg/1	SMC	0.00025	*	0.051	0.0493	97		
ARSENIC-VH	mg/1	JKM		*	1.02			*	*
LEAD-FLAME AMMONIA	mg/l mg/l	JKM WMW	Ø.Ø2 Ø	*	10			*	*

RECEIVED OHIO EPA

JUL 12 1989

UCLb = Upper Control Limit (Blank)

UCLs = Upper Control Limit (Spike Recovery)
LCLs = Lower Control Limit (Spike Recovery)

<sup>\* =</sup> Initial Data Collection

# QUALITY ASSURANCE DAILY REPORT

Date: Ohio Valley Laboratory:

Laboratory:	01110	· • • • • •								
	<u></u>		REFERE	NCE STA	NDARD		DUPLICATI	E SAMPLE		
Parameter	Units	Analyst	Known	Result	UCLx	LCLx	Resultl		Range UC	Lr
PHOSPHCRUS NITRATE TPH ALUMINUM-ICP ANTIMONY-ICP BARIUM-ICP CADMIUM-ICP CADMIUM-ICP CHROMIUM-ICP COPPER-ICP IRON-ICP MANGANESE-ICP NICKEL-ICP SOLUM-ICP	mg/1 mg/1 mg/1 mg/1 mg/1 mg/1 mg/1 mg/1	DIH DHT JKM	1 0.25 100 1 1.02 1.26 1.02 1.02 1.04 1.04 1.04	0.973 0.248 104 1.02 1.05 0.965 1.26 0.959 1.04 0.968 0.968	1.19 0.293 * 1.34 1.137 * * * * * * * * * * * * * * * * * * *	* 0.983 0.989 * * * * * * * * * * * * * * * * * * *	200 0.461 0.04 0.069 0.001 0.005 0.172 1.042 7 0.048 0 -0.004 32.25	-0.002 0 33.25	0.07 0.1 10 0.011 0.033 0.005 0.001 0.014 0.124 0.005 0.002 0.004 1	* * * * * * * * * * * * * *

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06/19/89

JUL 12 1989

DIV. of SOLID & HAZ. WASTE MGT.

UCLx = Upper Control Limit (Standard)

LCLx = Lower Control Limit (Standard)

UCLr = Upper Control Limit (Range)

\* = Initial Data Collection

Page 2

## QUALITY ASSURANCE DAILY REPORT

Laboratory:

Ohio Valley

Date:

06/19/89

	-		METHOD BL	ANK	MATRIX				
Parameter	Units	Analyst	Result	UCLb	Conc.	Recovery	Rec.(%)	UCLs(%)	LCLs(%)
PHOSPHORUS	mg/l	DIH	0.02	*	Ø.5	0.434	87	*	*
NITRATE	mg/l	DIH	Ø.Ø26	*	0.25	Ø.229	92	*	*
TPH	mg/l	DHT	Ø	*	50	45.5	91	*	*
ALUMINUM-ICP	mg/1	JKM	0.007	*	1	Ø.996	100	*	*
ANTIMONY-ICP	mg/1	JKM	-Ø.Ø17	*	1	1.02	102	*	*
BARIUM-ICP	mg/1	JKM	0.005	*	1.02	Ø <b>.</b> 961	94	*	*
BERYLLIUM-ICP	mg/l	JKM	Ø	*	1.26	1.16	92	*	*
CADMIUM-ICP	mg/l	JKM	0.001	*	1	0.925	93	*	*
CHROMIUM-ICP	mg/1	JKM	Ø	*	1.02	1.027	101	*	*
COPPER-ICP	mg/1	JKM	0.003	*	1.02	0.971	95	*	*
IRON-ICP	mg/1	JKM	0.003	*	1.04	Ø <b>.</b> 9	87	*	*
MANGANESE-ICP	mg/1	JKM	Ø	*	1.04	1.027	99	*	*
NICKEL-ICP	mg/1	JKM	-0.01	*	1	0.942	94	*	*
SILVER-ICP	mg/1	JKM	0.001	*	0.2	0.164	82	*	*
SODIUM-ICP	mg/1	JKM	0.052	*	10.1	9.7	96	*	*
ZINC-ICP	mg/l	JKM	0.004	*	1	0.828	83	*	*

RECEIVED OHIO EPA

JUL 12 1989

DIV. of SOLID & HAZ. WASTE MGT.

UCLb = Upper Control Limit (Blank)

UCLs = Upper Control Limit (Spike Recovery)

LCLs = Lower Control Limit (Spike Recovery)

\* = Initial Data Collection

## QUALITY ASSURANCE DAILY REPORT

\_aboratory:

Ohio Valley

Date:

06/20/89

			REFERI	ENCE ST	ANDARD		DUPLICA!	TE SAMPLE		
Parameter	Units	Analyst	Known	Result	UCLx	LCLx	Resultl	Result2	Range	UCLr
OVANTOE	mq/1	DIH	Ø.2	0.192	0.213	Ø.14	0.01	0.01	Ø	*
CYANIDE	mg/1	JKM	1	0.966	*	*	0.003	0.001	0.002	10
CADMIUM-ICP	_	JKM	1.02	1.03	*	*	0.014	Ø.Ø13	0.001	*
CHROMIUM-ICP	mg/l	JKM	1.02	1.01	*	*	Ø.1	0.097	0.003	*
BARIUM-ICP	mg/1		0.2	Ø.178	*	*	0.017	0.017	Ø	*
SILVER-ICP	mg/l	JKM	1.02	1.03	*	*	0.025	0.017	0.008	*
LEAD-ICP	mg/l	JKM		0.047	*	*	Ø.03889	0.037	0.00189	*
LEAD-FURNACE	mg/1	JKM	0.051	_		43	26	28	2	*
TSS	mg/1	SMC	50	55					40	*
TDS	mg/l	SMC	500	490		457	960			*
TOTAL SOLIDS	mg/1	SMC	500	596	527	477	300	300	Ø	-

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JUL 12 1989

DIV. of SOLID & HAZ. WASTE MGT.

UCLx = Upper Control Limit (Standard)

LCLx = Lower Control Limit (Standard)

UCLr = Upper Control Limit (Range)
\* = Initial Data Collection

# QUALITY ASSURANCE DAILY REPORT

Laboratory:	Ohio V	alley	_					Date:	06/20/89
	<u>-</u>		METHOD BLA	NK		/MEDIA SE			(0)
Parameter	Units	Analyst	Result	UCL <u></u> b		Recovery			LCLs(%)
CYANIDE CADMIUM-ICP CHROMIUM-ICP BARIUM-ICP SILVER-ICP LEAD-ICP LEAD-FURNACE TSS TDS TOTAL SOLIDS	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	DIH JKM JKM JKM SMC SMC SMC SMC	0.002 0.003 0.002 0.003 0 0.014 0.0005 -4 0	* * * * * * * * *	0.2 1 1.02 1.02 0.2 1.02 0.051 500 500	0.958 0.169 0.99 0.039 51	85 97 76 100 100	* * * * * * * * * * * * * * * * * * *	* * * * * * *

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JUL 12 1989

DIV. of SOLID & HAZ. WASTE MGT.

UCLb = Upper Control Limit (Blank)
UCLs = Upper Control Limit (Spike Recovery)
LCLs = Lower Control Limit (Spike Recovery)
\* = Initial Data Collection

#### QUALITY ASSURANCE DAILY REPORT

Laboratory:

Ohio Valley

Date:

06/21/89

			REFERI	ENCE STA	ANDARD		DUPLICAT	TE SAMPLE		
Parameter	Units	Analyst	Known	Result	UCLx	LCLx	Resultl	Result2	Range	UCLr
SELENIUM-VH	mg/l	JKM	0.05	0.0505	Ø.Ø58	0.04	0.0001	0.0003	0.0002	*
BERYLLIUM-ICP	mg/1	JKM	1.26	1.24	*	*	0.001	0.001	Ø	*
SULFATE	mq/1	VIMW	20	22	25.3	16.2	74	70	4	*
CADMIUM-ICP	mg/l	JKM	1	Ø.965	*	*	0.001	0.001	Ø	*
ARSENIC-VH	mg/l	JKM	0.051	0.0477	*	*	0.0088	0.0103	0.0015	*
CHROMIUM-ICP	mg/1	JKM	1.02	1.04	*	*	Ø.Ø28	0.025	0.003	*
LEAD-ICP	mg/1	JKM	1.02	1	*	*	0.053	0.059	0.006	*
COPPER-ICP	$\pi g/1$	JKM	1.02	Ø.992	*	*	0.422	0.415	0.007	*
ANTIMONY-ICP	mg/1	JKM	1	1	1.137	0.909	0.009	-0.004	0.013	*
IRON-ICP	mg/l	JKM	1.04	1.01	1.24	Ø.972	0.388	Ø.31	ø.Ø78	*
PHENOLICS	mg/l	DIH	Ø.5	0.506	0.55	0.451	4	4.5	Ø <b>.</b> 5	*
NICKEL-ICP	mg/1	JKM	1	Ø.979	*	*	0.056	Ø.Ø52	0.004	*
ALUMINUM-ICP	mg/1	JKM	1	1.08	1.34	Ø.983	10.694	10.125	Ø.569	*
THALLIUM-FURNACE		JKM	ø.øs	0.051	*	*	-0.0022	-0.002	0.00022	*
	mg/1	JKM	1.02	0.981	*	*	0.127	Ø.136	0.009	*
SILVER-ICP	mg/1	JKM	Ø.2	0.172	*	*	Ø	0.002	0.002	*
ZINC-ICP	mg/1	JKM	1	0.858	*	*	0.469	Ø.445	0.024	*
BOD	mg/l	SMC	200	197	237	167	<3		Ø	*

RECEIVED OHIO EPA

JUL 12 1989

UCLx = Upper Control Limit (Standard)

LCLx = Lower Control Limit (Standard)

UCLr = Upper Control Limit (Range)
\* = Initial Data Collection

nge 2

## KEMRON Environmental Services

### QUALITY ASSURANCE DAILY REPORT

Laboratory:

Obio Valley

Date:

06/21/89

			METHOD BLA	<b>A</b> NK	MATRIX				
Parameter	Units	Analyst	Result	UCLb	Conc.	Recovery	Rec.(%)	UCLs(%)	LCLs(%)
SELENIUM-VH	mg/l	JKM	-0.0001	*	0.05	0.0495	99	*	*
BERYLLIUM-ICP	mg/1	JKM	Ø	*	1.26	1.169	93	*	*
SULFATE	mg/l	WMJ	2	*	10	12.9	129	*	*
CADMIUM-ICP	mg/1	JKM	0.001	*	1	0.885	89	*	*
ARSENIC-VH	mg/1	JKM	0.0001	*	Ø.Ø51	0.0513	101	*	*
CHROMIUM-ICP	mq/1	JKM	0.001	*	1.02	0.975	96	*	*
LEAD-ICP	mg/1	JKM	0.008	*	1.02	1.004	98	*	*
COPPER-ICP	mg/1	JKM	0.001	*	1.02	ø.99	97	*	*
ANTIMONY-ICP	mg/l	JKM	-0.004	*	1	0.923	92	*	*
IRON-ICP	mq/1	JKM	-0.001	*	1.04	0.9	87	*	*
PHENOLICS	mg/1	DIH	0.001	*	Ø.5	0.474	95	*	*
NICKEL-ICP	mg/1	JKM	-0.011	*	1	Ø.928	93	*	*
ALUMINUM-ICP	mg/1	JKM	Ø.023	*	1	0.916	92	*	*
ALUMINUM-ICF THALLIUM-FURNACE	mg/1	JKM	Ø. 223	*	0.05		76	*	*
BARIUM-ICP	mg/l	JKM	0.004	*	1.02		91	*	*
SILVER-ICP	mg/1	JKM	-0.003	*	Ø.2		85	*	*
ZINC-ICP	mq/1	JKM	0.006	*	1	Ø.75		*	*
BOD	mg/1	SMC	0.4	*	200	189	95	* *	*

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JUL 12 1989

DIV. of SOLID & HAZ. WASTE MGT.

UCLb = Upper Control Limit (Blank)
UCLs = Upper Control Limit (Spike Recovery)

LCLs = Lower Control Limit (Spike Recovery)

\* = Initial Data Collection

### QUALITY ASSURANCE DAILY REPORT

Laboratory:

Onio Valley

Date:

06/22/89

			REFERI	ENCE STA	ANDARD		DUPLICAT	TE SAMPLE		
Parameter	Units	Analyst	Known	Result	UCLx	LCLx	Resultl	Result2	Range (	JCLr
BROMIDE	mg/l	DIH	40	41.5	*	*	1	1	Ø	*
TOC	mg/l	DIH	5Ø	46.1	53.4	46.4	16	15	1	*
COD	mg/l	DIH	64	57.1	76.8	51.2	1	1	Ø	*
FLUORIDE	mg/l	DIH	2	2.03	2.25	1.88	Ø.3	0.3	Ø	*
AMMONIA	mq/1	WMW	10	9.9	10.7	9.2	1	1	Ø	*
MERCURY-CV	mg/l	JKM	0.01	Ø.0107	0.013	0.007	0.0002	0.0002	Ø	*
ALUMINUM-ICP	mg/l	JKM	1	1.01	1.34	Ø.983	5.82	6.04	Ø.22	*
BARIUM-ICP	mg/l	JKM	1.02	Ø.971	*	*	0.138		Ø	*
BERYLLIUM-ICP	mg/l	JKM	1.26	1.24	*	*	Ø	0.006	0.006	*
CALCIUM-ICP	mg/1	JKM	10.1	9.99	10.7	9.71	63.8		2.4	1
CADMIUM-ICP	mg/l	JKM	1	Ø.938	*	*	Ø	0.006	0.006	*
CHROMIUM-ICP	mg/1	JKM	1.02	1	*	*	0.014		Ø	4
COPPER-ICP	mg/1	JKM	1.02	1	*	*	0.474		0.016	1
IRON-ICP	mg/1	JKM	1.04	1.01	1.24	Ø.972	14.3		0.1	*
MAGNESIUM-ICP	mg/1	JKM	10	10.3	11	9.93	15.56	14.82	Ø.74	ý
NICKEL-ICP	mg/1	JKM.	1	0.971	*	*	0.0064	0.0066	0.0002	7
SODIUM-ICP	mg/l	JKM	10.1	10	*	*	37.4	36.8	0.6	•
ZINC-ICP	mg/1	JKM	1	Ø.833	*	*	0.61	0.544	Ø.066	7
TPH	mg/l	WMI	100	99.1	*	*	4000	3300	700	7
OIL AND GREASE	mg/l	SMC	10	8.9	10.2	8.4	8.1	8.9	Ø.8	7

RECEIVED OHIO EPA

JUL 12 1989

UCLx = Upper Control Limit (Standard)
LCLx = Lower Control Limit (Standard)
UCLr = Upper Control Limit (Range)
\* = Initial Data Collection

#### QUALITY ASSURANCE DAILY REPORT

Laboratory:

Ohio Valley

Date:

06/22/89

			METHOD BL	ANK	MATRI				
Parameter	Units	Analyst	Result	UCLb	Conc.	Recovery	Rec.(%)	UCLs(%)	LCLs(%)
BROMIDE	mg/l	DIH	1	*	16	17.6	110	*	*
TOC	mg/l	DIH	0.2	*	25	18.3	73	*	*
COD	mg/1	DIH	1	*	- 32	27.1	85	*	*
FLUORIDE	mg/l	DIH	Ø.Ø5	*	0.4	Ø.4	100	*	*
AMMONIA	mg/1	WMW	Ø	*	10	10	100	*	*
MERCURY-CV	mg/1	JKM	Ø	*	0.01	0.0097	97	*	*
ALUMINUM-ICP	mg/l	JKM	-0.009	*	1	0.93	93	*	*
BARIUM-ICP	mg/1	JKM	0.006	*	1.02	0.991	97	*	. *
BERYLLIUM-ICP	mg/1	JKM	Ø	* .	1.26	1.34	106	*	*
CALCIUM-ICP	mg/1	JKM	0.008	*	10.1	8.9	88	*	*
CADMIUM-ICP	mg/1	JKM	0.001	*	1	1.04	104	*	*
CHROMIUM-ICP	mg/1	JKM	-0.001	*	1.02	1.083	106	*	*
COPPER-ICP	mg/1	JKM	0.002	*	1.02	1.003	98	*	*
IRON-ICP	mg/1	JKM	0.001	*	1.04	1.03	99	*	*
MAGNESIUM-ICP	mg/1	JKM	0.033	*	10	10.22	102	*	*
NICKEL-ICP	mg/1	JKM	-0.001	*	1	1.057	106	*	*
SODIUM-ICP	mg/l	JKM	0.024	*	10.1	10.1	100	*	*
ZINC-ICP	mg/l	JKM	0.004	*	1	Ø <b>.</b> 875	88	*	*
TPH	mg/l	VM-1	Ø	*	25	19.5	78	*	*
OIL AND GREASE	mg/1	SMC	Ø.3	*	10	8.1	81	*	*

RECEIVED OHIO EPA

JUL 12 1989

DIV. of SOLID & HAZ. WASTE MGT.

UCLb = Upper Control Limit (Blank)
UCLs = Upper Control Limit (Spike Recovery)
LCLs = Lower Control Limit (Spike Recovery)
\* = Initial Data Collection

### QUALITY ASSURANCE PAILY REPORT

Laboratory:

Ohio Valley

Date: :7/80/89

	-		DETROD BL	AuK	MATRIX	K/MEDIA SI	PIKE		·
Parameter	Units	Analyst	Result	UCLb	Conc.	Recovery	Rec.(%)	UCLs(%)	LCLs (%)
OLYBDENUM-ICP	mg/l	JKM	w.013	*	5	5.75	101	*	*
TITANIUM-ICP	ng/1	JKM	3.398	*	5	4.59	92	*	*
ALUMINUM-ICP	mg/1	JKN:	-0.203	*	1	9.94	94	*	×
BARIUN-ICP.	mg/1	JKN	5.006	×	1.	0.976	98	*	×
CALCIUM-ICP	mg/1	JKM	-0.003	*	10.1	8.1	89	*	*
CADMIUN-ICP	mg/1	JKN	ø.802	**	1.	0.993	99	*	k
CHROMIUM-ICP	mg/1	Jiiti	0.801	*	1.02	1.045	102	*	*
IRON-ICP	mg/1	JKN	-0.011	*	1.94.	9.9	37	*	*
MACNESIUM-ICP	mg/1	JKN	-0.619	*	10	9.3	93	*	*
MANGANESE-ICP	mg/1	JKM	0.001	*	1.44	<b>ប</b> ុខិ	85	*	*
SCDIUM-ICP	mg/1	JKid	0.015	*	10.1	8.3	82	*	木
ZINC-ICP	mq/l	JKii	0.002	*	1	0.852	85	*	*
TOTAL SCLIDS	ncj/l	SHC	16	*	500	524	105	*	*
TDS	ng/1	SMC	-2	ж	5ឦ៙	515	103	*	ĸ
rss	mq/1	JKM	4	⁺ <b>*</b>	50	55	110	*	*
CYANIDE	mg/1	1.146	130.w	*	0.2	0.188	94	*	*

RECEIVED OHIO EPA

JUL 12 1989

DIV. of SOLID & HAZ. WASTEMGT.

UCLt = Upper Control Limit (Black)

UCLs = Upper Control Limit (Spike Recovery) LCLs = Lower Control Limit (Spike Recovery)

\* = Initial Data Collection

# QUALITY ASSURANCE DAILY REPORT

M1/06/89 Date: Ohio Valley Laboratory:

	٠		REFERENCE STANDARD				DUPLICA'	•		
Parameter	Units	Analyst	Known	Result	UCLx	LCLx	Resultl	Result2	Range U	Mr
MAN MENENTRAL TOD	н9/1	JKI4	<u>1</u>	1.81	*	*	0.092	ø.ø96	0.004	*
MOLYBDENUM-ICP		JKM	5		*	*	0.14	Ø.145	0.035	*
TITANIUM-ICP	mg/1		1	1.1	1.307	0.881	0.012	Ø.007	0.005	*
ALUMINUM-ICP	mg/1	JKM	1.02	1	1.106		Ø	0.001	0.001	*
BARIUM-ICP	mg/1	JKN	10.1	10.2				325	7.5	*
CALCIUM-ICP	mg/1	JKM	. 1		0.993				Ø	*
CADMIUM-ICP	mg/1	JKM					_	0.001	0.001	*
CHROMIUM-ICP	mg/l	JKM	1.02				=		ø.007	*
IRON-ICP	mg/1	JKM	1.04						ø.75	*
MAGNESIUM-ICP	mg/1	JKM	16	_	11.114	_			0.001	*
MANGANESE-ICP	${ m mg/l}$	JKM	1.04	_ `		1.8Z3	Ø.037		0.003	. *
SODIUM-ICP	mg/1	JKN	10.1			*	ø.037		ย <b>.</b> ผย3	*
ZINC-ICP	mg/1	JKM	1						6	*
TOTAL SOLIDS	mg/1	SMC	500						54	*
TDS	mg/1	SMC	500				-		3	*
TSS	mg/1	JKM	50						ے (ا	*
CYANTOE	mq/1	IMI	Ø.2	0.151	0.213	0.14	0.01	0.01	¥3	-

RECEIVED OHIO EPA

JUL 12 1989

DIV. of SOLID & HAZ. WASTE MGT.

UCLx = Upper Control Limit (Standard)

LCLx = Lower Control Limit (Standard)
UCLr = Upper Control Limit (Range)
\* = Initial Data Collection

#### CUALITY ASSURANCE DAILY REPORT

Laboratory: Oh<u>i</u>o Valley Date: 117/116/39

			REFERI	ENCE ST	ANDARD		DUPLICA'	re sample		
Parameter	Units	Analyst	Known	Result	UCLx	LCLx	Resultl	Result2	kange (	JCLr
NOLYBDENUM-ICP	mg/I	JK/1	1	1.61	*	*	0.092	й <b>.</b> 096	<b>ો</b> . ઇસ્પેય	*
TITANIUM-ICP	mg/l	JETI	5	4.76	*	*	0.14	0.145	J.035	*
ALUMINUM-ICP	mg/1	JKM	1	1.1	1.307	0.881	3.012	0.007	9.895	*
BARIUM-ICP	mg/1	JKN	1.92	1	1.196	0.908	9	0.001	0.001	*
CALCIUM-ICP	mg/1	JKM	10.1	10.2	10.759	9.595	317.5	325	7.5	×
CADMIUM-ICP	mg/1	JKM	. 1	0.983	0.993	0.921	Ø	ø	0	*
CHROMIUM-ICP	mg/1	JKM	1.32	1.04	1.967	0.977	Ü	0.001	0.301	*
IRON-ICP	mg/l	JKM	1.04	1	1.134	0.96	9.004	0.011	J.007	*
MAGNESIUM-ICP	mg/1	JKM	16	10.1	11.114	9.752	134.25	135	9.75	कं
MANGANESE-ICP	mg/1	JKH	1.04	1.06	1.333	1.023	0.001	2	0.031	*
SODIUM-ICP	mg/l	JKN	10.1	10	*	*	Ø.037	0.94	0.003	*
ZINC-ICP	mg/l	JKM	1	0.874	*	*	ŭ.003	J.996	g.ທ <b>ນ</b> 3	*
TOTAL SOLIDS	mg/1	SNC	500	506	527	477	488	194	ົ້ນ <b>.</b> ເກີນ ວິ	*
TDS	mg/1	SMC	500-	<b>488</b>	543	457	366	420	54	*
TSS	mg/1	JKM.	50	<sup>`</sup> 55	59	43	3	<1.	3	*
CYANIDE	mg/1	IMI	Ø.2	0.151	0.213	0.14	0.01	Ø.01	Ø	*

RECEIVED OHIO EPA

JUL 12 1989

UCLx = Upper Control Limit (Standard)

LCLx = Lower Control Limit (Standard)

UCLr = Upper Control Limit (Range)
\* = Initial Data Collection

#### QUALITY ASSURANCE DAILY REPORT

Laboratory:	Oh <u>i</u> o	Valley						Date:	07/06/39	
			REFERI	ENCE ST	ANDARD		DUPLICA'	PE SAMPLE	Ξ	
Parameter	Units	Analyst	Known	Result	UCLx	LCLx	Resultl	Result2	kange	OCLr
MOLYBDENUM-ICP	на/1	JKI1	1	1.01	*	*	บ.092	Ø.Ø96	0.884	*
TITANIUM-ICP	mg/1	JEN	5	4.76	*	*	0.14	0.145	ປ.ທິນ5	*
ALUMINUM-ICP	$m_{i}/1$	JKř1	1	1.1	1.307	0.881	3.012	0.007	0.205	*
BARIUM-ICP	mg/1	JKN	1.92	1	1.106	0.908	3	0.001	0.001	*
CALCIUM-ICP	mg/1	JKH 1	10.1	10.2	10.759	9.595	317.5	325	7.5	ж
CADMIUM-ICP	mg/l	JKM .	1	0.983	0.993	0.921	Ø	Ø	Ø	*
CHROMIUM-ICP	mg/1	JKM	1.32	1.04	1.067	0.977	. 0	0.001	0.301	*
IRON-ICP	mg/l	JKM	1.04	1	1.134	Ø.96	91.004	0.011	<b>5.</b> £67	*
MAGNESIUM-ICP	mg/1	JKM	16	10.1	11.114	9.752	134.25	135	Ø.75	*
MANGANESE-ICP	$m_{9}/1$	JKN	1.04	1.96	1.333	123	0.001	Ø	3.091	*
SODIUM-ICP	mg/l	JKM	10.1	1ต	K	*	0.037	0.94	0.003	*
ZINC-ICP	mg/l	JKM	1	0.874	*	*	0.003	J.006	ຍ.ທ03	*
TOTAL SOLIDS	mg/1	SMC	539	506	527	477	488	494	ő	*
TDS	mg/l	SNC	500-	<b>488</b>	543	457	366	420	54	*
ISS	mg/1	JKM	50	55	59	43	3	<1	3	*
CYANIDE	mg/l	v.PM.J	Ø.2	0.151	0.213	0.14	0.01	0.01	()	*

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JUL 12 1989

DIV. of SOLID & HAZ. WASTE MGT.

UCLx = Upper Control Limit (Standard)

LCLx = Lower Control Limit (Standard)

UCLr = Upper Control Limit (Range)
\* = Initial Data Collection

TSS

TDS

## KEMRON Environmental Services

#### QUALITY ASSURANCE DAILY REPORT

Laboratory:

Ohio Valley

mg/l SMC

Laboratory: Onlo	variey						· · ·	
•		METHOD BLA	ANK	MATRIX	K/MEDIA SI	PIKE		
Parameter Units	Analyst	Result	UCLb	Conc.	Recovery	Rec.(%)	UCLs(%)	LCLs(%)
MOLYBDENUM-ICP mg/l	JKM	0.012	*	1	1.008	101	*	*
LEAD-FURNACE mg/1	RSL	0.002	*	0.051	0.042	82	*	*
CYANIDE mg/1	DIH	0.001	*	0.2	0.159	80	*	*
TIN-FURNACE mg/1	JKM	Ø	*	0.05	0.054	108	*	*
ALUMINUM-ICP mg/1	JKM	-0.005	*	1	1	100	*	*
ANTIMONY-ICP mg/l	JKM	Ø.Ø11	*	1	0.904	90	*	*
BARIUM-ICP mg/l	JKM	-0.004	*	1.02	0.865	85	*	*
BERYLLIUM-ICP mg/l	JKI1	Ø	*	1.26	1.21	96	*	*
CADMIUM-ICP mg/1	JKM	0.001	*	1	0.922	92	*	*
CHROMIUM-ICP mg/1	JKM	0	*	1.02	0.971	95	*	*
COPPER-ICP mg/1	JKM	ø	*	1.02		89	*	*
IRON-ICP mg/1	JKM	-0.001	*	1.04		97	*	*
and the second s	JKM	-0.007	*	1	0.961	96	*	*
NICKEL-ICP mg/l	JKM	-0.001	*	0.2			*	*
SILVER-ICP mg/l	JKi1	0.004	*	1	0.849		*	*
ZINC-ICP mg/l	SMC	-4	*	50				*

500

RECEIVED OHIO EPA

98

490

Date: 06/27/89

JUL 26 1989

DIV. of SOLID & HAZ. WASTE MGT.

UCLb = Upper Control Limit (Blank)

UCLs = Upper Control Limit (Spike Recovery)

LCLs = Lower Control Limit (Spike Recovery)

\* = Initial Data Collection

#### QUALITY ASSURANCE DAILY REPORT

Laboratory:	Ohio Valley	Date: Ø6/26/89
	REFERENCE STANDARD	DUPLICATE SAMPLE
Parameter	Units Analyst Known Result UCLx	LCLx Result1 Result2 Range UCLr
HARDNESS	mg/l SMC 100 101 10	2 98.7 680 690 10 *

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JUL 26 1989

DIV. of SOLID & HAZ. WASTE MGT.

UCLx = Upper Control Limit (Standard)

LCLx = Lower Control Limit (Standard)

UCLr = Upper Control Limit (Range)
\* = Initial Data Collection

Page 2

KEMRON Environmental Services

**OUALITY ASSURANCE DAILY REPORT** 

Laboratory:

\_Ohio Valley

Date:

06/26/89

METHOD BLANK

MATRIX/MEDIA SPIKE

Parameter

Units Analyst Result

UCLb Conc. Recovery Rec.(%) UCLs(%) LCLs(%)

HARDNESS

SMC mg/l

50

49

98

RECEIVED OHIO EPA

JUL 26 1989

<sup>\* =</sup> Initial Data Collection

# QUALITY ASSURANCE DAILY REPORT

Laboratory:

Ohio Valley

Ø6/22/89 Date:

Laboratory:	OUTO AST	.c <sub>1</sub>								
			REFEREN	ICE STA	NDARD		DUPLICAT	E SAMPLE		
	Units An	alvst				LCLx	Resultl	Result2	Range UCI	
Parameter	Ollica With	<u></u>				*	1	1	Ø	*
BROMIDE TOC COD FLUORIDE AMMONIA MERCURY-CV ALUMINUM-ICP BARIUM-ICP BERYLLIUM-ICP CALCIUM-ICP CADMIUM-ICP CHROMIUM-ICP COPPER-ICP IRON-ICP MAGNESIUM-ICP NICKEL-ICP SODIUM-ICP ZINC-ICP TPH OIL AND GREASE	mg/l Ji mg/l Ji mg/l Ji mg/l J	:H :H :H	40 50 64 2 10 0.01 1.02 1.02 1.02 1.02 1.02 1.04 10.1	1.0 10. 0.97 1 0.83	2.25 10.7 0.013 1.34 * 10.5 3 * 1 1.2 3 1 1 * 0 * 1 *	46.4 51.2 1.88 9.2 0.007 0.983 * * * * 4 0.97 1 9.9	16 1 0.3 1 0.0002 5.82 0.138 0 1 63.8 0.014 0.474 2 14.3 3 15.56	0.138 0.006 61.4 0.006 0.014 0.458 14.2 14.82 4 0.0066 4 36.8 1 0.544 0 3300	1 Ø Ø Ø Ø.22 Ø Ø.006 2.4 Ø.006 Ø.016 Ø.016 Ø.016 Ø.04 Ø.0002 Ø.6 Ø.066 700 Ø.8	*****

RECEIVED OHIO EPA

JUL 26 1989

DIV. of SOLID & HAZ. WASTEMGT.

UCLx = Upper Control Limit (Standard) LCLx = Lower Control Limit (Standard)

UCLr = Upper Control Limit (Range)
\* = Initial Data Collection

Page 2

#### QUALITY ASSURANCE DAILY REPORT

Laboratory:

Ohio Valley

Date:

06/22/89

			METHOD BLA	ANK	MATRIX	K/MEDIA SE	PIKE		·
Parameter	Units	Analyst	Result	UCLb	Conc.	Recovery	Rec.(%)	UCLs(%)	LCLs(%)
BROMIDE	mg/l	DIH	1	*	16	17.6	110	*	*
TOC	mg/1	DIH	0.2	*	25	18.3	73	*	*
COD	mg/1	DIH	1	*	32	27.1	85	*	. *
FLUORIDE	mg/1	DIH	Ø <b>.</b> Ø5	*	0.4	0.4	100	*	*
AMMONIA	mg/1	WMW	Ø	*	10	10	100	*	*
MERCURY-CV	mg/1	JKM	Ø	*	0.01	0.0097	97	*	*
ALUMINUM-ICP	mg/1	JKM	-0.009	*.	1	0.93	93	*	*
BARIUM-ICP	mg/1	JKM	0.006	*	1.02		97	*	*
BERYLLIUM-ICP	mg/l	JKM	0	*	1.26		106	*	*
CALCIUM-ICP	mg/l	JKM	0.008	*	10.1	8.9	88		*
CADMIUM-ICP	mg/l	JKM	0.001	*	1	1.04	104		*
CHROMIUM-ICP	mg/1	JKM	-0.001	*	1.02		106	*	*
COPPER-ICP	mg/1	JKM	0.002	*	1.02	1.003	98	*	*
IRON-ICP	mg/1	JKM	0.001	*	1.04	1.03	99	*	*
MAGNESIUM-ICP	mg/l	JKM	Ø.Ø33	*	10	10.22	102	*	*
NICKEL-ICP	mg/1	JKM	-0.001	*	1	1.057	106	*	*
SODIUM-ICP	mg/l	JKM	0.024	*	10.1	10.1	100	*	*
ZINC-ICP	mg/l	JKM	0.004	*	1	Ø.875	88	*	*
TPH	mg/1	WMW	Ø	*	25	19.5	78	*	*
OIL AND GREASE	mg/l	SMC	0.3	*	10	8.1	81	*	*

RECEIVED OHIO EPA

JUL 26 1989

UCLb = Upper Control Limit (Blank)

UCLs = Upper Control Limit (Spike Recovery)

LCLs = Lower Control Limit (Spike Recovery)
\* = Initial Data Collection

#### QUALITY ASSURANCE DAILY REPORT

Date: 06/21/89 Ohio Valley Laboratory:

41			REFERI	ENCE STA	ANDARD		DUPLICAT	TE SAMPLE		
Parameter	Units	Analyst	Known	Result	UCLx	LCLx	Resultl	Result2	Range	UCLr
SELENIUM-VH	mg/l	JKM	0.05	0.0505	0.058	0.04	0.0001	0.0003	0.0002	*
BERYLLIUM-ICP	mg/1	JKM	1.26	1.24	*	*	0.001	0.001	Ø	*
SULFATE	mg/1	WMV	20	22	25.3	16.2	74	7Ø	· <b>4</b>	*
CADMIUM-ICP	mg/1	JKM	1	Ø.965	*	*	0.001	0.001	Ø	*
ARSENIC-VH	mq/1	JKM	0.051	0.0477	*	*	0.0088	0.0103	0.0015	*
CHROMIUM-ICP	mg/1	JKM	1.02		*	*	Ø.Ø28	Ø.025	0.003	*
LEAD-ICP	mg/1	JKM	1.02	1	*	*	0.053	0.059	Ø.Ø06	*
COPPER-ICP	mg/1	JKM	1.02		*	*	0.422	0.415	0.007	*
ANTIMONY-ICP	mg/1	JKM	1	1	1.137	0.909	0.009	-0.004	0.013	*
IRON-ICP	mg/l	JKM	1.04	1.01	1.24	Ø.972	0.388	Ø.31	0.078	*
PHENOLICS	mg/1	DIH	Ø.5			Ø.451	4	4.5	Ø <b>.</b> 5	*
NICKEL-ICP	mg/l	JKM	1			*	0.056	Ø.Ø52	0.004	*
ALUMINUM-ICP	mg/1	JKM	ì			0.983	10.694	10.125	0.569	*
THALLIUM-FURNACE		JKM	Ø.Ø5			*	-0.0022	-0.002	0.00022	*
BARIUM-ICP	mg/l	JKM	1.02			*	Ø.127	0.136	0.009	*
SILVER-ICP	mg/1	JKM	Ø.2			*	Ø	0.002	0.002	*
ZINC-ICP	mg/1	JKM	1			*	Ø.469	0.445	0.024	*
BOD	mg/l	SMC	200		237	167	<3		Ø	*

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JUL 26 1989

UCLx = Upper Control Limit (Standard)

LCLx = Lower Control Limit (Standard)
UCLr = Upper Control Limit (Range)

<sup>\* =</sup> Initial Data Collection

rage 2

#### KEMRON Environmental Services

### QUALITY ASSURANCE DAILY REPORT

Laboratory:

Ohio Valley

Date:

Ø6/21/89

			METHOD BLA	wк	MATRIX	K/MEDIA SI	PIKE		
Parameter	Units	Analyst	Result	UCLb	Conc.	Recovery	Rec.(%)	UCLs(%)	LCLs(%)
SELENIUM-VH	mg/l	JKN	-0.0001	*	0.05	0.0495	99	*	*
BERYLLIUM-ICP	mg/l	JKM	Ø	*	1.26	1.169	93	*	*
SULFATE	mg/1	WMW	2	*	10	12.9	129	*	*
CADMIUM-ICP	mg/l	JKM	0.001	*	1	Ø.885	89	*	*
ARSENIC-VH	mg/1	JKM	0.0001	*	0.051	Ø.Ø513	101	*	*
CHROMIUM-ICP	mq/1	JKM	0.001	*	1.02	0.975	96	*	*
=	mg/1	JKM	0.008	*	1.02	1.004	98	*	*
COPPER-ICP	mg/l	JKM	0.001	*	1.02	ø.99	97	*	*
ANTIMONY-ICP	mg/1	JKM	-0.004	*	1	Ø.923	92	*	*
IRON-ICP	mg/1	JKM	-0.001	*	1.04	Ø.9	87	*	*
PHENOLICS	mg/l	DIH	Ø.Ø01	*	0.5	0.474	95	*	*
NICKEL-ICP	mg/1	JKM	-0.011	*	1	0.928	93	*	*
ALUMINUM-ICP	mg/l	JKM	Ø.023	*	1	0.916	92	*	*
THALLIUM-FURNACE		JKM	0	*	0.05	0.038	76	*	*
BARIUM-ICP	mg/1	JKM	0.004	*	1.02		91	*	*
SILVER-ICP	mg/1	JKM	-0.003	*	Ø.2		85		*
		JKM	0.006	*	1	0.75	75	*	*
ZINC-ICP BOD	mg/l	SMC	Ø.4	*	200	189	95		*

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JUL 26 1989

DIV. of SOLID & HAZ. WASTE MGT.

UCLb = Upper Control Limit (Blank)

UCLs = Upper Control Limit (Spike Recovery)

LCLs = Lower Control Limit (Spike Recovery)

\* = Initial Data Collection

### QUALITY ASSURANCE DAILY REPORT

Laboratory:

Ohio Valley

Date:

06/27/89

	<u>.</u>		REFERI	ENCE STA	ANDARD		DUPLICA'	TE SAMPLE		
Parameter	Units	Analyst	Known	Result	UCLx	LCLx	Resultl	Result2	Range	UCLr
MOLYBDENUM-ICP	mg/l	JKM	5	5.05	*	*	0.022	0.001	0.021	*
LEAD-FURNACE	mg/l	RSL	Ø.Ø51	Ø.055	*	*	0.00444	0.002	0.00244	*
CYANIDE	mg/l	DIH	0.2	Ø.184	Ø.213	0.14	0.01	0.01	Ø	*
TIN-FURNACE	mg/l	JKM	0.05	0.055	*	*	Ø	Ø	Ø	*
ALUMINUM-ICP	mg/l	JKM	1	1.02	1.34	0.983	0.01	0.009	Ø.001	*
ANTIMONY-ICP	mg/l	JKM	1	Ø.978	1.137	0.909	-0.001	-0.002	0.001	*
BARIUM-ICP	mg/l	JKM	1.02	Ø.962	*	*	0.048	Ø.047	0.001	*
BERYLLIUM-ICP	mg/l	JKM	1.26	1.25	, *	, *	Ø	Ø	Ø	*
CADMIUM-ICP	mg/l	JKM	1	Ø.972	*	*	Ø	Ø	Ø	*
CHROMIUM-ICP	mg/l	JKM	1.02	1.03	*	*	0.002	0.002	Ø	×
COPPER-ICP	mg/l	JKM	1.02	0.995	*	*	0.004	0.002	0.002	×
IRON-ICP	mg/l	JKM	1.04	1.04	1.24	Ø.972	0.024	0.02	0.004	*
NICKEL-ICP	mg/l	JKM	1	Ø.999	*	*	0.028	0.026	0.002	*
SILVER-ICP	mg/l	JKM	0.2	0.175	*	*	0.001	-0.005	0.006	*
ZINC-ICP	ma/l	JKM	1	Ø.885	*	*	0.017	0.013	0.004	*
TSS	mg/l	SMC	50	56	59	43	5	5	Ø	*
TDS	mg/l	SMC	500	502	543	457	360	370	10	*

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JUL 2 6 1989

DIV. of SOLID & HAZ. WASTEMGT.

\*UCLx = Upper Control Limit (Standard)

LCLx = Lower Control Limit (Standard)

UCLr = Upper Control Limit (Range)
\* = Initial Data Collection

	07/07/89	KEMRON 07/20/	REPORT 89 08:25:55	WOLK Older & Ma-07-001
REPORT TO	Ohio EPA DSHWM  1800 Watermark Dr.  P.O. Box 1049  Columbus, OH 43266-0149	PREPARED BY	KEMRON ENVIRONMENTAL SER 109 STARLITE PARK MARIETTA, OHIO 45750	CERTIFIED BY
ATTEN	Susan Buchanan	ATTEN PHONE	(614) 373-4071	CONTACT H BUSKIRK
COMPANY	OEPA 56664 SAMPLES Ohio EPA 1800 Watermark Dr.	ALL WORK	PERFORMED IN ACCORDANCE	WITH STANDARD METHODOLOGY.
WORK ID	Columbus, Ohio 43266-0149  American Steel Found/K890	7061		
P.O. #	308731/113088 under separate cover			
8AMPLE 01 ASF100 02 ASF100 03 ASF100 04 ASF100	LLF 2LF	E <u>P MET</u> <u>EP Toxi</u>	TEST CODES and NAMES us	sed on this report

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JUL 2 4 1989



AMPLE ID ABF100LF

FRACTION <u>01A</u> TEST CODE <u>EP MET</u> NAME <u>EP Toxicity Metals</u>
Date & Time Collected <u>06/30/89 13:50:00</u> Category <u>SOLID</u>

EP TOXICITY TEST

K8907061

UNITS: MG/L				VERIFIED:	RJW
	CONTAMINANT	RESULT	RCRA LIMIT		·
EPA#	Arsenic	<0.04	5.0		
D004	Barium	0.97	100.0		
D005	Cadmium	<0.01	1.0		
D006		<0.02	5.0		
D007	Chromium		5.0		
D008	Lead	<0.2			
D009	Mercury	NA	0.2		
	Selenium	<0.04	1.0		
D010	silver	<0.04	5.0		
D011	PIII				

NOTES AND DEFINITIONS FOR THIS REPORT.
NA = NOT ANALYZED

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JUL 24 1989



KEMRON REPORT
Results by Sample

Work Order # M9-07-.81

AMPLE ID ASF101LF K8907061 FRACTION 021	2A TEST CODE <u>EP_MET</u> NAME <u>EP Toxicity Metals</u> e Collected <u>06/30/89 14:00:00</u> Category <u>SOLID</u>
---	---

EP TOXICITY TEST

UNITS: MG/L				VERIFIED: RJW
EPA#	CONTAMINANT	RESULT	RCRA LIMIT	
D004	Arsenic	<0.04	5.0	
D005	Barium	0.20	100.0	
D006	Cadmium	<0.01	1.0	
D007	Chromium	<0.02	5.0	
D008	Lead	<0.2	5.0	
D009	Mercury	NA	0.2	
D010	Selenium	<0.04	1.0	
D011	Şilver	<0.04	5.0	

NOTES AND DEFINITIONS FOR THIS REPORT. NA = NOT ANALYZED

-1

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AMPLE ID ASF102LF

KEMRON REPORT Results by Sample

Work Order # M9-07-081

FRACTION 03A TEST CODE EP MET NAME EP Toxicity Metals

Date & Time Collected 06/30/89 14:10:00 Category SOLID

EP TOXICITY TEST

K8907061

UNITS: MG/L				VERIFIED: RJW
EPA#	CONTAMINANT	RESULT	RCRA LIMIT	
D004	Arsenic	<0.04	5.0	
D005	Barium	0.39	100.0	
D006	Cadmium	<0.01	1.0	
D007	Chromium	<0.02	5.0	
D008	Lead	<0.2	5.0	
D009	Mercury	NA	0.2	
D010	Selenium	<0.04	1.0	
D011	Şilver	<0.04	5.0	

NOTES AND DEFINITIONS FOR THIS REPORT.

NA = NOT ANALYZED

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AMPLE ID ASF103LF K8907061 FRACTION

FRACTION <u>04A</u> TEST CODE <u>EP MET</u> NAME <u>EP Toxicity Metals</u>
Date & Time Collected <u>06/30/89 14:20:00</u> Category <u>80LID</u>

EP TOXICITY TEST

UNITS: MG/L				VERIFIED: RJW
EPA#	CONTAMINANT	RESULT	RCRA LIMIT	
	Arsenic	<0.04	5.0	
D004	Barium	0.07	100.0	
D006	Cadmium	<0.01	1.0	
D007	Chromium	<0.02	5.0	
	Lead	<0.2	5.0	
D008	Mercury	NA	0.2	
D009	Selenium	<0.04	1.0	
D010	silver	<0.04	5.0	
D011	Silver	7000		

NOTES AND DEFINITIONS FOR THIS REPORT.
NA = NOT ANALYZED

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KEMRON

REPORT

ngm n nceived: 07/07/89 Test Methodology

EST CODE EP MET NAME EP Toxicity Metals

PA Method 1310 (SW-846)

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JUL 24 1989



## QUALITY ASSURANCE DAILY REPORT

Laboratory:	Chio Val	lley						Date:	Ø7/18/89	· · · · · · · · · · · · · · · · · · ·
			REFERE	NCE STA	ANDARU		DUPLICA!	TE SAMPLE		
Parameter	Units A	nalyst	Known	Result	UCLX	LCLX	Resultl	Result2	Range U	CLr
TIN-AA	mg/l Ji	KM	10	9.33	*	*	-1.167	-1.14	0.027	*
CHLOKIDL	mg/1 W	Mv.	20	20.5	21.5	19.3	84	84	0	*
CADMIUM-ICP	mg/l Ji	KM	1	0.907	©.993	0.921	-0.062	-0.002	Ø	
CHRONIUM-ICP		KM	1.02	0.988	1.067	ი.977	0.005	მ.0∂3	0.002	*
BARIUM-ICP	_	ΚM	1.02	1	1.106	ପ.9୯୫	0.214	0.197	€.017	*
		Khi	0.2	ø <b>.</b> 17	*	*	-0.651	C	0.061	*
SILVER-ICP LEAD-ICP	5 <del>.</del> 5, — -	KU	1.02		*	*	0.004	G	0.004	*

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JUL 2 4 1989

DIV. of SOLID & HAZ. WASTE MGT.

UCLx = Upper Control Limit (Standard) LCLx = Lower Control Limit (Standard)

UCLr = Upper Control Limit (Range)

\* = Initial Data Collection

Page 2

#### QUALITY ASSURANCE DAILY REPORT

07/18/89 Date: Ohio Valley Laboratory: MATRIX/MEDIA SPIKE METHOD BLANK UCLb Conc. Recovery Rec.(%) UCLs(%) LCLs(%) Units Analyst Result Parameter 111 11.14 10 0.15 JKN1 mg/1TIN-AA 108 21.5 20 WW  ${
m mg/l}$ CHLORIDE 0.992 99 -0.001 1 mg/1JKM CADHIUN-ICP 0.965 95 1.02 mg/1JKI1 CHROMIUM-ICP 99 1.01 1.02 -0.001 BARIUM-ICP Eg/1JKM 95 Ŷ.2 0.189 JKM 0 Taty/1SILVER-1CP 110 1.02 1.125 0.003 JER LEAD-ICP mq/1

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JUL 24 1989

DIV. of SOLID & HAZ. WASTE MGT.

UCLr = Upper Control Limit (Blank)

CCLs = Upper Control Limit (Spike Recovery)

LCLs = Lover Control Limit (Spike Recovery)

\* = Initial Data Collection

### QUALITY ASSURANCE DAILY REPORT

Laboratory:	Ohio '	Valley					<del></del>	Date:	07/19/89	-
			REFERI	ENCE ST	ANDARD		DUPLICA'	TE SAMPL	E	
Parameter	Units	Analyst	Known	Result	UCLx	LCLx	Resultl	Result2	Range	UCLr
SELENI UNI-VH	mg/l	JKM	0.05	0.0512	0.06	0.042	0.0006	n.necl	ଡ.ଉଧ୍ୟ	*
TPH	mg/1	MET	100	101	*	*	1300	1306	Ø	*
ARSEN1C-VH	mg/l	JKN	0.051	Ø.0495	Ø.057	0.045	0.0037	Ø.Ø033	S.0004	*
CADATUM-ICP	mg/l	JKII	ı	0.989	ø.993	0.921	Û	Ø	0	*
CHRONIUM-ICP	ng/l	JKM	1.02	1.04	1.067	0.977	0.025	6.021	0.004	*
BARIUM-ICP	mg/l	JKM	1.62	1.01	1.136	0.908	1.05	ø <b>.</b> 973	₽.677	*
SILVER-ICP	ng/1	JKM	0.2			*	0.009	-0.903	0.012	*
LEAD-ICF	mg/l	JKU	1.62		*	*	0.046	0.058	0.012	*
MERCURY-CV	mg/l	JKM	0.01		0.013	0.007	0.0003	6.0062	0.0001	*
PHENOLICS	ng/l	DIH	ນ <b>.</b> ນ5	0.054			0.13	0.11	ប.02	*
LEAD-FURNACE	mg/l	JKM	0.051	0.049		*	0.006		ĕ.003	*

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DIV. of SOLID & HAZ. WASTE MGT.

UCLx = Upper Control Limit (Stanualc)

LCLx = Lower Control Limit (Standard)
UCLr = Upper Control Limit (Range)
\* = Initial Data Collection

# KEMRON Environmental Services

## QUALITY ASSURANCE DAILY REPORT

	Ohio V	alley	QUALITY AS:	20KHINOD	<i>D</i> 1.222			Date:	Ø7/19/89
Laboratory:			METHOD ELA	NK UCLb		MEDIA SP		: UCLs(%)	LCLs(%)
SELENIUM-VH TPH ARSENIC-VH CADMIUM-ICP CHROMIUM-ICP BARIUM-ICP SILVER-ICP LEAL-ICP MERCURY-CV PHENOLICS LEAD-FURNACE	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	Analyst JEC MET JEC	0.0002 0.0002 0.0002 0.0003 0.0001 0.0001 0.0001	* * * * * * * *	0.05 25 0.051 1.02 1.02 0.2 1.02 0.01	0.0435 25.5 0.0472 1.05 1.07 0.903 0.195 1.12 0.6093	87 102 93 105 105 89 98 114 93	* * * * * * * * * *	* * * * * * * *

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JUL 2 4 1989

DIV. of SOLID & HAZ. WASTE MGT.

UCLb = Upper Control Limit (Elank)

UCLs = Upper Control Limit (Spike Recovery)
LCLs = Lower Control Limit (Spike Recovery)
\* = Initial Data Collection

	Ohio EPA DSHWM  1800 Watermark Dr.  P.O. Box 1049  Columbus, OH 43266-0149	PREPARED KEMRON ENVIRONMENTAL SERVICES BY 109 STARLITE PARK MARIETTA, OHIO 45750  CERTIFIED BY
ATTEN	Susan Buchanan	ATTEN CONTACT H BUSKIRK
COMPANY	OEPA 56664 SAMPLES 4 Ohio EPA	ALL WORK PERFORMED IN ACCORDANCE WITH STANDARD METHODOLOGY.
1.VC11'I.LA	1800 Watermark Dr. Columbus, Ohio 43266-0149	* Analysis performed on Ohio EPA DI EP-Toxicity Leachate (Phenol, CN, F)
TAKEN		/
TRANS TYPE P.O. #		
	500915 E IDENTIFICATION	TEST CODES and NAMES used on this report

SAMPLE IDENTIFICATION

"AGA 1

"eceived: 06/14/89

01 ASF 001 K890613-2 02 ASF 002 K890613-2 K890613-2 03 ASF 007 K890613-2 04 ASF 008

. 1

AG	Silver, Total
AS	Arsenic, Total
BA	Barium, Total
CD	Cadmium, Total
CN	Cyanide, Total
CR	Chromium, Total
EP MET	EP Toxicity Metals
F	Fluoride
HG	Mercury, Total
M8240	Volatile Organics
PB FU	Lead, Total
PHENOL	Phenolics, Total
SE	Selenium, Total

RECEIVED OHIO EPA

JUL 21 1989



rage 2

Received: 06/14/89

REPORT KEMRON Results by Sample

Work Order # M9-06-166

SAMPLE # 01 FRACTIONS: A,B Date & Time Collected 06/09/89 12:08:00 Category WATER K890613-2 SAMPLE ID ABF 001 <0.0005 <0.02 HG CR <0.01 mg/1 Hg mg/l Cr 0.86 BA0.01 mg/1 Cd ЛB mg/l Ba <0.01 λG mg/1 As mg/l Ag <0.004 SE 0.067 PB FU mg/l Se mg/l Pb

> RECEIVED OHIO EPA

JUL 21 1989



MERGRAN PROGRAMMENTAL SE SE FINKLES

KEMRON

REPORT Results by Sample

rage 3 Received: 06/14/89

SAMPLE ID ABF 001

00/11/05

K890613-2

FRACTION 01A TEST CODE M8240 NAME Volatile Organics
Date & Time Collected 06/09/89 12:08:00 Category WATER

FILE #: 20E7197. ANALYST: FSA VERIFIED: DMD UNITS: ug/L INJECTD: 06/15/89 FACTOR: INSTRMT: FINN2 DET LIMIT RESULT COMPOUND CAS# 10 BDL Chloromethane 74-87-3 10 Bromomethane BDL 74-83-9 Vinyl chloride BDL 10 75-01-4 10 BDL Chloroethane 75-00-3 Methylene chloride 5 BDL75-09-2 10 BDL Acetone 67 - 64 - 15 Carbon disulfide BDL 75-15-0 5 BDL 1,1-Dichloroethene 75-35-4 5 1,1-Dichloroethane BDL 75-34-3 5 1,2-Dichloroethene (total) BDL 540-59-0 5 BDL Chloroform 67-66-3 5 1,2-Dichloroethane BDL107-06-2 10 BDL2-Butanone 78-93-3 5 1,1,1-Trichloroethane BDL 71-55-6 5 BDLCarbon tetrachloride 56-23-5 10 Vinyl acetate BDL108-05-4 5 BDLBromodichloromethane 75-27-4 5 1.2-Dichloropropane BDL78-87-5 5 cis-1,3-Dichloropropene BDL 10061-01-5 RECEIVED 5 Trichloroethene BDL 79-01-6 OHIO EPA 5 BDL Dibromochloromethane 124-48-1 5 1,1,2-Trichloroethane BDL  $\frac{1}{1}$  79-00-5 JUL 21 1989 5 Benzene BDL 71-43-2 5 trans-1,3-Dichloropropene BDL 10061-02-6 10 2-Chloroethyl vinyl ether BDLDIV. of SOLID & HAZ. WASTE MGT. 110-75-8 5 BDL Bromoform 75-25-2 10 BDL2-Hexanone 591-78-6 10 BDL 4-Methyl-2-pentanone 108-10-1 5 BDL Tetrachloroethene 127-18-4

Page 4 Received: 06/14/89 KEMRON REPORT
Results by Sample

Work Order # M9-06-166 Continued From Above

GAMPLE ID ASF 001 K890613-2

FRACTION <u>01A</u> TEST CODE <u>M8240</u> NAME <u>Volatile Organics</u>
Date & Time Collected <u>06/09/89 12:08:00</u> Category <u>WATER</u>

CAS#	COMPOUND	RESULT	DET	LIMIT
108-88-3	Toluene	BDL		5
79-34-5	1,1,2,2,-Tetrachloroethane	$\mathtt{BDL}$		5
108-90-7	Chlorobenzene		8	5
100-41-4	Ethyl benzene	$\mathtt{BDL}$		5
100-42-5	Styrene	$\mathtt{BDL}$		5
1330-20-7	Xylenes (Total)		12	5

SURROGATES

1,2-Dichloroethane-d4 97 % Recovery
Toluene-d8 98 % Recovery

p-Bromofluorobenzene

98 % Recovery

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OHIO EPA

JUL 21 1989

DIV. of SOLID & HAZ. WASTEMGT.

NOTES AND DEFINITIONS FOR THIS REPORT

DET LIMIT = DETECTION LIMIT

BDL = BELOW DETECTION LIMIT

\* = SEMI-QUANTITATIVE SCREEN ONLY



KEMRON

Work Order # M9-06-166

Page 5 Received: 06/14/89

REPORT Results by Sample

02 FRACTIONS: A,B		Category WATER
02 FRACTIONS: M729/89 12:29:00 Come Collected 06/09/89 12:29:00 C	AMPLE ID ASF 002 K890613-2 Date & Time C	0.2 HG0.001
30 CD 0.01 CR mg/1	0.02 BA	/1 Cr mg/1 Hg
ва у	G <0.01 AB 0.02 mg/l Ba mg/l As mg/l Ba	
	B EU 0.03 SE <0.004	
	mg/1 Pb mg/1 Se	
	mg/l Ag mg/l 112 B FU 0.03 8E <0.004	

RECEIVED OHIO EPA

JUL 21 1989



Results by Sample

Page 6 Received: 06/14/89

GAMPLE ID ASF 002 K890613-2

FRACTION <u>02A</u> TEST CODE <u>M8240</u> NAME <u>Volatile Organics</u>
Date & Time Collected <u>06/09/89 12:29:00</u> Category <u>WATER</u>

					•
ANALYST: JLJ INSTRMT: FINN2	FILE #: 20 INJECTD: 06/15/89 FACTOR:	E7199 1 UNITS	;; ug/L	VERIFIED: DMD	* X
ANALYST: JLJ INSTRMT: FINN2  CAS# 74-87-3 74-83-9 75-01-4 75-00-3 75-09-2 67-64-1 75-15-0 75-35-4 75-34-3 540-59-0 67-66-3 107-06-2 78-93-3 71-55-6 56-23-5 108-05-4 75-27-4	INJECTD: 06/15/89 FACTOR:  COMPOUND Chloromethane Bromomethane Vinyl chloride Chloroethane Methylene chloride Acetone Carbon disulfide 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 2-Butanone 1,1,1-Trichloroethane Carbon tetrachloride Vinyl acetate Bromodichloromethane 1,2-Dichloropropane	1 ONIIS	F LIMIT  10  10  10  10  5  10  5  10  5  5  5  10  5  10	VERIFIED: DMD	
78-87-5 10061-01-5 79-01-6 124-48-1 79-00-5 71-43-2	cis-1,3-Dichloropropene Trichloroethene Dibromochloromethane 1,1,2-Trichloroethane Benzene	BDL BDL BDL BDL	5 5 5 5 5 5 10	RECEIVEI OHIO EPA JUL 21 19	
10061-02-6 110-75-8 75-25-2 591-78-6 108-10-1 127-18-4	2-Chloroethyl vinyl ether Bromoform 2-Hexanone 4-Methyl-2-pentanone Tetrachloroethene	BDT BDT BDT BDI BDT	5 10 10 5	DIV. of SOLID & HAZ. W/	iste mg1

Page 7 Received: 06/14/89 KEMRON REPORT Results by sample

Work Order # M9-0: 66 Continued From Above

SAMPLE ID ASF 002 K890613-2 FRACTION 02A TEST CODE M8240 NAME Volatile Organics

Date & Time Collected 06/09/89 12:29:00 Category WATER

CAS# 108-88-3 79-34-5 108-90-7 100-41-4 100-42-5 1330-20-7	COMPOUND Toluene 1,1,2,2,-Tetrachloroethane Chlorobenzene Ethyl benzene Styrene Xylenes (Total)	RESULT BDL BDL BDL BDL BDL	DET	LIMIT 5 5 5 5 5 5 5
--	---	----------------------------	-----	---------------------

SURROGATES
1,2-Dichloroethane-d4
Toluene-d8
p-Bromofluorobenzene

SURROGATES

85 % Recovery

94 % Recovery

78 % Recovery

RECEIVED OHIO EPA

JUL 21 1989

DIV. of SOLID & HAZ. WASTEMGT.



NOTES AND DEFINITIONS FOR THIS REPORT

DET LIMIT = DETECTION LIMIT

BDL = BELOW DETECTION LIMIT

\* = SEMI-QUANTITATIVE SCREEN ONLY

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Page 8

KEMRON REPORT Results by sample

Work Order # M9-06-166

Page 8 Received: 06/14/89	Results by bampio	
SAMPLE ID ASF 007	K890613-2 SAMPLE # 03 FRACTIONS: A  Date & Time Collected 06/09/89 14:00:00 Category SOLID	-
CN <0.01 * F mg/1 CN	0.3 * PHENOL <0.001 * mg/l F mg/l Phenol	

<sup>\*</sup>Analysis performed on Ohio EPA DI EP-Toxicity Leachate.

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REPORT KEMRON Results by Sample

nge 9 aceived: 06/14/89

K890613-2 AMPLE ID ABF 007

TEST CODE EP MET NAME EP Toxicity Metals FRACTION 03A Category **BOLID** Date & Time Collected 06/09/89 14:00:00

EP TOXICITY TEST

UNITS: MG/L				VERIFIED:	RJW	
EPA#	CONTAMINANT	RESULT	RCRA LIMIT			,
D004	Arsenic	<0.04	5.0			
D005	Barium	0.18	100.0			
D006	Cadmium	<0.01	1.0			
D007	Chromium	<0.02	5.0			
D008	Lead	<0.2	5.0			
D009	Mercury	<0.001	0.2			
D010	Selenium	<0.04	1.0			
D011	Şilver	<0.04	5.0			

NOTES AND DEFINITIONS FOR THIS REPORT. NA = NOT ANALYZED

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KEMRON

REPORT

Work Order # M9-0, 166

Results by Sample 'aceived: 06/14/89

SAMPLE # 04 FRACTIONS: A K890613-2 SAMPLE ID ASF 008

Date & Time Collected 06/09/89 14:15:00 Category SOLID

PHENOL <0.001 \* 0.2 \* <0.01 \* F mg/l Phenol mg/1 F mg/1 CN

\*Analysis performed on Ohio EPA DI EP-Toxicity Leachate.

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onge 11 Received: 06/14/89

AMPLE ID ASF 008

KEMRON REPORT Results by Sample

Work Order # M9-06-166

FRACTION <u>04A</u> TEST CODE <u>EP\_MET</u> NAME <u>EP\_Toxicity Metals</u>
Date & Time Collected <u>06/09/89 14:15:00</u> Category <u>SOLID</u>

5.0

EP TOXICITY TEST

K890613-2

UNITS: MG/L VERIFIED: RJW RESULT RCRA LIMIT CONTAMINANT EPA# 5.0 Arsenic <0.04 D004 100.0 Barium 0.1 D005 1.0 Cadmium <0.01 D006 5.0 Chromium <0.02 D007 5.0 <0.2 Lead B000 0.2 Mercury <0.001 D009 1.0 Selenium <0.04 D010

<0.04

Śilver

NOTES AND DEFINITIONS FOR THIS REPORT.

NA = NOT ANALYZED

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REPORT

Page 12 Received: 06/14/89 Test Methodology

TEST CODE AG NAME Silver, Total

MPA Method 200.7 (ICP) or 272.1 (AA - Direct Aspiration)

TEST CODE AS NAME Arsenic, Total

EPA Method 206.3 (AA Vapor Hydride)

TEST CODE BA NAME Barium, Total

EPA Method 200.7 - (ICAP) or 208.1 (AA - Direct Aspiration)

TEST CODE CD NAME Cadmium, Total

EPA Method 200.7 (ICP) or 213.1 (AA - Direct Aspiration)

TEST CODE CN NAME Cyanide, Total

EPA Method 335.2 Reflux, Spectrophotometric, Titrimetric

TEST CODE CR NAME Chromium, Total

EPA Method 200.7 (ICP) or 218.1 (AA - Direct Aspiration)

TEST CODE EP MET NAME EP Toxicity Metals

EPA Method 1310 (SW-846)

TEST CODE F NAME Fluoride

EPA Method 340.2 Fluoride Electrode

TEST CODE HG NAME Mercury, Total

EPA Method 245.1 (Cold Vapor)

TEST CODE M8240 NAME Volatile Organics

EPA Method 8240 Volatile Organics - Purge and Trap

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REPORT

Work Order # M9-06-166

Page 13 Received: 06/14/89

Test Methodology

TEST CODE PB FU NAME Lead, Total

AA Graphite Furnace EPA Method 239.2

TEST CODE PHENOL NAME Phenolics, Total

EPA Method 420.1 Spectrophotometric Manual 4-AAP

with distillation

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Froject No.: Project Name:							7	7	/ /s	; / co	T./	ارز ا	4 /	7	7/	74,	7				
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	фшо	Grab	Date	Time	San	ple Loc	ation ,		1%	<b>×</b>	4/9	₹/₩ 	/\tilde{\pi}/	2/2		\ <u>\a_{\text{-1}}</u>		L /W/		D <sub>O</sub> Y	VA
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15F007 15F008		*	11	14:00	TOP I	F14;	ALIA ARIA PIA			<u>'</u>		X						*		<b>X</b>	
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## QUALITY ASSURANCE DAILY REPORT

Laboratory:	Ohio Valley		Date: 07/08/89
		REFERENCE STANDARD	DUPLICATE SAMPLE
Parameter	Units Analys	t Known Result UCLx LCLx	Resultl Result2 Range UCLr
PHENOLICS	mg/l PNW	Ø.05 Ø.053 Ø.067 Ø.04	# Ø.001 Ø.001 Ø *

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JUL 21 1989

DIV. of SOLID & HAZ. WASTE MGT.

UCLx = Upper Control Limit (Standard)
LCLx = Lower Control Limit (Standard)
UCLr = Upper Control Limit (Range)
\* = Initial Data Collection

Page 2

#### KEMRON Environmental Services

#### QUALITY ASSURANCE DAILY REPORT

Laboratory:	Ohio Valley	,					Date:	07/08/89	
	-	METHOD BLA	NK	MATRI:	X/MEDIA S			,	
Parameter	Units Analy	st Result	UCLb	Conc.	Recovery	Rec.(%)	UCLs(%)	LCLs(%)	
PHENOLICS	mg/l PNW	0.001	*	0.5	Ø.485	97	*	*	-

RECEIVED OHIO EPA

JUL 21 1989

DIV. of SOLID & HAZ. WASTEMGT.

UCLb = Upper Control Limit (Blank)

UCLs = Upper Control Limit (Spike Recovery)

LCLs = Lower Control Limit (Spike Recovery)

\* = Initial Data Collection

## QUALITY ASSURANCE DAILY REPORT

07/06/89 Date: Ohio Valley Laboratory:

			REFERI	ENCE STA	ANDARD		DUPLICAT	TE SAMPLE		
Parameter	Units	Analyst	Known	Result	UCLx	LCLx	Resultl	Result2	Range	UCLr
MOLYBDENUM-ICP	mg/l	JKM	ī	1.01	*	*	0.092	Ø.Ø96	0.004	*
TITANIUM-ICP	mg/l	JKM	5	4.76	*	*	0.14	0.145	0.005	*
ALUMINUM-ICP	mq/1	JKM	1	1.1	1.307	0.881	0.012	0.007	0.005	*
BARIUM-ICP	mq/l	JKM	1.02	1	1.106	Ø.908	Ø	0.001	0.001	*
CALCIUM-ICP	mg/l	JKM	10.1	10.2	10.759	9.595	317.5	325	7.5	*
CADMIUM-ICP	mg/l	JKM	1	0.983	Ø.993	Ø.921	Ø	Ø	Ø	*
CHROMIUM-ICP	mq/1	JKM	1.02	1.04	1.067	0.977	Ø	0.001	0.001	. *
IRON-ICP	mg/1	JKM	1.04	1	1.134	Ø.96	0.004	0.011	0.007	*
MAGNESIUM-ICP	mg/l	JKM	10	10.1	11.114	9.752	134.25	135	Ø.75	*
MANGANESE-ICP	mg/l	JKM	1.04	1.06	1.083	1.023	0.001	Ø	0.001	*
SODIUM-ICP	mg/l	JKM	10.1	10	*	*	0.037	0.04	0.003	*
ZINC-ICP	mg/l	JKM	1	0.874	*	*	0.003	0.006	0.003	*
TOTAL SOLIDS	mg/l	SMC	500	5ø6	527	477	488	494	6	*
TDS	mg/l	SMC	500		543	457	366	420	54	*
TSS	mg/l	JKM	50			43	3	<1	3	*
CYANIDE	mg/1	WW	0.2					0.01	Ø	*
OIL AND GREASE	mg/l	MET	10				10	7.9	2.1	*

RECEIVED OHIO EPA

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DIV OF SOLID & HAZ. WASTE MGT.

UCLx = Upper Control Limit (Standard)

LCLx = Lower Control Limit (Standard)
UCLr = Upper Control Limit (Range)
\* = Initial Data Collection

# QUALITY ASSURANCE DAILY REPORT

Laboratory:

Ohio Valley

07/06/89 Date:

			METHOD BLA	NK	MATRIX	/MEDIA SP	IKE		
MOLYBDENUM-ICP TITANIUM-ICP ALUMINUM-ICP BARIUM-ICP CALCIUM-ICP CADMIUM-ICP CHROMIUM-ICP IRON-ICP MAGNESIUM-ICP SODIUM-ICP ZINC-ICP TOTAL SOLIDS TDS TSS CYANIDE OIL AND GREASE	Units  mg/1 mg/1 mg/1 mg/1 mg/1 mg/1 mg/1 mg/	JKM JKM JKM JKM SMC SMC SMC JKM		UCLb  * * * * * * * * * * * * * * * * * * *		8.1 0.94 0.94 0.93 1.045 0.9 0.88 8.3 0.85 51 0.18	Rec.(%)  101 92 94 98 80 99 102 87 8 82 8 82 105 11 8 9	* * * * * * * * * * * * * * * * * * * *	LCLs(%)  *  *  *  *  *  *  *  *  *  *  *  *  *

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DIV of SOLID & HAZ. WASTEMGT.

UCLb = Upper Control Limit (Elank)

UCLs = Upper Control Limit (Spike Recovery) LCLs = Lower Control Limit (Spike Recovery)

\* = Initial Data Collection

## QUALITY ASSURANCE DAILY REPORT

Laboratory:	Ohio V	alley						Date:	07/10/89
***************************************	-		METHOD BLANK		MATRI	x/nedia si			
Parameter	Units	Analyst	Result	UCLb	Conc.	Recovery	Rec.(%)	UCLs(%)	LCLs(%)
STRONTIUM-AA	mg/l	JKM	Ø	*	1	Ø.95 <sub>6</sub>	96	*	*
CONDUCTIVITY	Us/cm		Ø.75	*				*	*
SODIUM-AA	mq/1	JKM	-0.1	*	10.1	10.2	101	*	*
POTASSIUM-AA	mg/l	JKM	0.0005	*	1.01	1.035	102		*
HARDNESS	mg/l	SMC	Ø	*	50	<b>5</b> 0	100	*	*
COD	mg/l	DIH	1	*	32	33.8	106	*	*
COLOR	units	DIH	5	*	16	10	100	*	*
FLUORIDE	mg/l	DIH	Ø.Ø5	*	3.4	0.39	<del>9</del> 8	*	*
SULFATE	mg/L	WMW	2	*	16	11.9	119	*	*
CHLORIDE	mg/L	MMI	0.2	*	20	. 22	110	*	*
LEAD-FURNACE	mg/L	JKM	0.0005	*	0.051	0.048		*	*

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JUL 21 1989

DIV. of SOLID & HAZ. WASTE MGT.

UCLb = Upper Control Limit (blank)

UCLs = Upper Control Limit (Spike Recovery) LCLs = Lower Control Limit (Spike Recovery)

\* = Initial Data Collection

## QUALITY ASSURANCE DAILY REPORT

Laboratory:

Ohio Valley

07/10/89

Date:

	_		REFER	ence sti	NDARD		DUPLICA	TE SAMPLE		
Parameter	Units	Analyst	Known	Result	UCLx	LCLx	Resultl	Result2	Range U	CLr
STRONTIUM-AA	mg/l	JKM	1	1.01	*	*	0.60111	Ø <b>.</b> 591	0.01011	*
CONDUCTIVITY	Us/cm	SMC	1413	1391	1430	1390	1400	1400	Ø	*
SODIUM-AA	mg/1	JKM	10.1	9.5	*	*	108	113.7	5.7	*
POTASSIUM-AA	mg/l	JKH	1.01	1.057	*	*	0.082	0.0776	0.0944	*
HARDNESS	mg/1	SMC	100	102	102	98.7	2.4	2.4	Ø	*
COD	mg/1	DIH	320	322	353	285				*
COLOR	units	DIH	20	2છ	20	26	5	5	Ø	*
FLUORIDE	mg/l	DIH	2	2.1	2.25	1.88	Ø.2	0.2	Ø	*
SULFATE	mq/L	WM	20	18	25.3	16.2			Ø	*
CHLORIDE	mg/L	WN	20	22.5	21.2	19.3	31	31	Ø	*
LEAD-FURNACE	ng/L	JKM	0.051	Ø.Ø51	*	*	0.03	0.04	0.01	*

RECEIVED OHIO EPA JUL 21 1989 DIV. OF SOLID & HAZ. WASTEMGT.

UCEx = Upper Control Limit (Standard)

LCLx = Lower Control Limit (Stanoard)

UCLr = Upper Control Limit (Range)

\* = Initial Data Collection



# HAIN-OF-CUSTODY RECORD

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ern Around Requirements:	50	PAY	5													Page of	
roject No.: Project Name:  Froject Name:  Fr	Signe XI Xe_ Time	ature: John S.	OUWARIES  LATE  AMERICAN  AMERICAN	NUMBER OF	20/200 80/200 80/400 80/200 80	BASENECT	FOX SOLD FOX	10x 0x 04/s		REC	CEIV	ED	Jony			ADDITIONAL REQUIREMENT ALL E.P.	NTS
olinquished by:	Date 7/4/89	Time	Received by: (Signature)		1	nquishe	ed by		SOL.	ID&	HAZ	-WAS		I <b>GT.</b> Tirr		Received by: Signature)	
ilinquished by: (ignature)	Date	Time	Received for Laboral by: (Signature)		 055	Date	Tir	ne	4	marl	s: Sa	114 n.00	ele	su	 مد اح/خ	a in good	RIO .

# RCRA INTERIM STATUS INSPECTION FORM

			10	a
Facility	y Name: AMERICAN STEEL FOUNDRIES	Date of Inspection 6/1	2 /0	7
Address	: LAKE PARK BLUD @ EDWINTON	USEPA ID #: OHD		
County:	TEBRING TWP. MAHONING	Facility Phone #: No	PHON	26
country.	7.111160. 11.9	E		
Facilit	y Contact: PAUL LIMBACH	Facility Contact Phone#: Safety Equipment #:	:	
050 20	CHUCK RUUD	_ 54160) Equipment **	7286 N	
Inspect	or(s)Name(s): KEVIN BONZO  KRIS CODER			
	KRIS COUCK	<del>-</del>		
STATUS Cond. E	x. SQG SQG Generator Transporter	Treatment Storage	Disposa	1 📈
4 0771/77	TEO			/
Contain	ers Tanks Surface Impoundments Inci	neration/Thermal Creatmen		
Waste p	ile Land treatment Landfill Groundw	der der		
Used oi	1 burner Hazardous waste fuel burner/blen		**	
		9	Y/N/NA	REMARK #
1.	Does the facility produce "discarded materia	ls" as defined in	1	
il ie			~	
	AT PROJET	ON FACILITY		
2.	ira trav.			
	a. Abandoned(disposed:incinerated;accum	nulated, stored, or		
	treated prior to disposal)?		7	
	b. Recycled?	10 E000 E006 E008)0		
	c. Inherently waste-like?(F020,F021,F02	22, F023, F020, 10207.		
1044	total treated or store	ed before		
3.	If recycled or accumulated, treated or store recycling, is the waste:			
18°		sal?		
	<ul><li>b. Burned for energy recovery?</li></ul>	s		
	c. Reclaimed? (Refer to Table 1 of 374	5-51-02)		
	d. Accumulated speculatively?			
4.	- the established by heing:			
#1.E	a Used or reused as an ingredient in a	an industrial process to		3
	make a product without prior reclams	ation?		
	b. Used as an effective substitute for	om which it was denerated		
	c. Returned to the original process from without prior reclamation as a substitute substitute.	titute for a raw materia	l	
	without prior reclamation as a subs	4.0-30		
	feedstock?			

5. 6. 7. 8. 9.	Are LDR wastes generated? If so, complete appropriate LDR checklist.  Has the facility submitted a Part A to Ohio?  If yes, is it complete and accurate?  If not accurate, has a PCR been submitted? If yes, what date was the PCR submitted?  Is the facility operating in compliance with the terms and conditions of its HWFB permit?  Has the facility submitted a Part B?  Was advance notice of the inspection given? If so, how far in advance?  **TITE*  **TI
	PART A SUBMITTED IN NOV. 1980 FOR LANDEICE STARCH  OISPOSAL OF DOOD WASTE  TEN JUNE 1982, ASF REQUESTED USEPA  WITHDRAW PART A APPLICATION BASED ON  THEIR TESTING OF WASTE STREAM
	U.S. EPA ACKNOWLEDGES REQUEST IN APRIC 1983  BASED ON INFORMATION SUBMITTED AT  THAT TIME.
	JUBSEQUENT SAMPLING BY U.S. EPA CONFIRMED DISPOSAL OF WAZARDOUS WASTE AT THIS FACILITY.

Y/N/NA REMARK #

REMARKS. GENERAL INFORMATION.

Include list of wastes being generated/managed at the site and a brief description of site activity and waste handling.

## OAL 3745-65-et seg. GENERAL FACILITY STANDARDS (40 CFR Part 265, SUBPART B)

			Y/N/NA	REMARK #
1.	analysis mation w	e owner/operator (o/o) have a detailed chemical and physical sof the waste material containing all of the inforwhich must be known to properly treat or store the required by 3745-65-13(A)(1) (265.13(a))?	<u>+</u>	
2.	analytic	have a written waste analysis plan which describes cal parameters, test methods, sampling methods, frequency and responses to any process changes that ect the character of the waste. [3745-65-13(B)]	<u> </u>	
3.	b.	Would physical contact with the waste structures or equipment injure unknowing/unauthorized persons or livestoc entering the facility? $[3745-65-14(A)(1)]$ (265.14(a)(1)) Would disturbance of the waste cause a violation of the hazardous waste regulations? $[3745-65-14(A)(2)]$ (265.14(a)(2))	<u> </u>	· :
IF BOT	H 3A and	3B ARE NO, MARK QUESTIONS 4 AND 5 NOT APPLICABLE.		
4.	Does the	e facility have -		
	a. b.	A 24-hour surveillance system, or An artificial or natural barrier <u>and</u> a means to control entry at all times [3745-65-14(B)(2)(a and b)] (265.14(b)(2))	<del>-</del> <del>-</del> <u>-</u> <u>-</u> <u>-</u> <u>-</u>	SECURITY FENCE INSTALL
5.	Voon Our	e facility have a sign "Danger-Unauthorized Personnel t" at each entrance to the active portion of the facility other locations as necessary. [3745-65-14(C)](265.14(c))	7	LEGEND - NO TRESPASSING VICLATORS WILL BE PROSECUTED.
6.	a.	Has the o/o developed and followed a comprehensive, written inspection plan and documented the inspections, malfunctions and any remedial actions taken in an operating record log which is kept for at least three years. [3745-65-15] (265.15)	<u>~</u>	

b. Are areas subject to spills (i.e., loading and unloading areas, etc.) inspected daily when in use and according to other applicable regulations when not in use. [3745-65-15(B)(4)] (265.15(b)(4))

 $\mathcal{N}$  —

7. Has the o/o provided a Personnel Training Program in compliance with 3745-65-16(A)(B)(C) including instruction in safe equipment operation and emergency response procedures, training new employees within 6 months and providing an annual training program refresher course. (265.16(a)(b)(c))

8. Does o/o keep all records required by 3745-65-16(D)(E) including written job titles, job descriptions and documented employee training records. (265.16(d)(e))

<del>\\_</del> \_\_\_

9. If Ignitable, Reactive or incompatible wastes are handled, does the facility meet the following requirements? [3745-65-17](265.17)

N/A \_\_\_\_

- a. Protection from sources of ignition.
- b. Physical separation of incompatible waste materials.
- c. "No Smoking" or "No Open Flames" signs near areas where Ignitable or Reactive wastes are handled.
- d. Comingling of waste materials is done in a controlled, safe manner as prescribed by 3745-65-17(B) (265.17(b)

# OAC 3745-65 PREPAREDNESS AND PREVENTION (40 CFR PART 265 SUBPART C)

		Y/N/NA	REMARK #
۱.	Is the facility operated to minimize the possibilty of fire, explosion, or non-planned release of hazardous waste? [3745-65-31] (265.31)	<u> </u>	
2.	Has there been a fire, explosion or non-planned release of waste at the facility?	~	
3.	If required due to actual hazards associated with the waste, does the facility have the following equipment:  [3745-65-32(A)(B)(C)(D)] (265.32)  a. Internal alarm system?  b. Access to telephone, radio or other device for summoning emergency assistance?  c. Portable fire control equipment?  d. Water of adequate volume and pressure via hoses, sprinkler, foamers or sprayers?	~/4	PADIOS IN TRUCKS
4.	Is all required spill control and decontamination equipment, fire and communications equipment tested and maintained as necessary? [3745-65-33] (265.33)	$\sim$	
5.	If required due to the actual hazards associated with the waste, do personnel have immediate access to an emergency communication device during times when hazardous waste is being physically handled? [3745-65-34] (265.34)		RADIC 3
6.	If required due to the actual hazards associateed with the waste, is adequate aisle space to allow unobstructed movement of emergency or spill control equipment maintained? [3745-65-35] (265.35)	s _//	
7.	If required due to the actual hazards associated with the waste, has the facility attempted to make appropriate arrangements with local authorities to familiarize them with the possible hazards and the facility layout? [3745-65-37(A)] (265.37(a))	<u> </u>	, 4

## Y/N/NA REMARK #

8. Where state or local emergency service authorities have declined to enter into any proposed special arrangements or agreements, has the refusal been documented. [3745-65-37(B)] (265.37(b))

-4-

# OAC 3745-65 CONTINGENCY PLAN AND EMERGENCY PROCEDURES (40 CFR PART 265 SUBPART D)

Y/N/NA	REMARK	#

1.	Does the o/o have a written Contingency Plan designed to
١.	
	hazardous wastes which contains the following components for the
	hazardous wastes which contains the first (265 52):
	facility? [3745-65-52(A)(B)(C)(D)(E)] (265.52):

a. Actions to be taken by personnel in the event of an emergency incident?

b. Arrangements or agreements with local or state emergency authorities?

c. Names, addresses and telephone numbers of all persons qualified to act as emergency coordinator?

d. A list of all emergency equipment including location, physical description and outline of capabilities?

e. If required due to the actual hazards associated with the waste handled, an evacuation plan for facility personnel? [3745-65-52(F)] (265.51(f))?

- 2. Is a copy of the Contingency Plan and any plan revisions maintained on-site and has been submitted to all local and state emergency service authorities that might be required to participate in the execution of the plan? [3745-65-53(A)(B)] (265.53)
- 3. Is the plan revised in response to rule changes, facility, equipment and personnel changes or failure of the plan? [3745-65-54] (265.54)
- 4. Is an emergency coordinator who is familiar with all aspects of site operation and emergency procedures who has the authority to implement all aspects of the Contingency Plan designated at all times (on-site or on-call)? [3745-65-56(A-J)] (265.56)
  - 5. If an emergency situation has occurred, has the emergency coordinator implemented all or part of the Contingency Plan and taken all of the actions and made all of the notifications deemed necessary under 3745-65-56(A-J). (265.56(a-j))

NO CONTIN-GENCY PLAN

# C 3745-65 MANIFEST SYSTEM/RECORDS/REPORTING (40 CFR PART 265, SUBPART E)

NOTE: THE FOLLOWING REQ \$UIREMENTS ARE APPLICABLE TO BOTH ON-SITE AND OFF-SITE TREATMENT, STORAGE AND DISPOSAL FACILITIES.

Y/N/NA REMARK #

- 1. Does the o/o maintain a written operating record at the facility as required by 3745-65-73(A) (265.73) which contains the following information:
  - a. Description and quantity of each hazardous waste treated, stored or disposed of within the facility and the date and method pertinent to such treatment, storage or disposal?

    [3745-65-73(B)(1)] (265.73(b)(1).

b. Common name, EPA Hazardous Waste Identification Number and physical state (solid, liquid, gas) of the waste?

The estimated (or actual) weight, volume or density of the waste material?

d. A description of the method(s) used to treat, store or dispose of the waste using the EPA handling codes listed in Table 2 of OAC 3745?:(Part 265, Appendix I, Table 2)

e. The present physical location of each hazardous waste within the facility?

f. Records of incidents which require implementation of the Contingency Plan?

g. FOR DISPOSAL FACILITIES, the location and quantity of each hazardous waste recorded on a map of the facility and cross-references to any pertinent manifest document numbers? [3745-65-73(B)(2)] (265.73(b)(2))

h. Records of any waste analyses and trial tests required to be performed?

i. Records of the inspections required under 3745-65-15 (265.15) (General Inspection Requirements)?

j. Records of any monitoring, testing, or analytical data required under other Supparts as referenced by 3745-65-73(B)(6);(265.73(b)(6))?

k. Records of closure cost estimates and post-closure (DISPOSAL ONLY) cost estimates required under OAC 3745-66 (Part 265 Subpart G)?

Sec Chosure Section

2. Has the o/o submitted an annual (bienniel) Treatment-Storage-Disposal Operating Report (by March 1) containing all of the operating information required under 3745-65-75 (265.75)?

 $\sim$ 

NOTE: THE FOLLOWING REQUIREMENTS ARE APPLICABLE ONLY TO OFF-SITE TSDS.

3. Are manifests received by the facility signed and dated?

Is one copy given to the transporter, one copy sent to the generator within 30 days and one copy kept for at least 3 years?

[3745-65-71(A)] (265.71)

a. If shipping papers are used in lieu of manifests (bulk shipments, etc.), are the same requirements met [3745-65-71(B)] (265.71(b))?

b. Are any significant discrepancies in the manifest, as defined in 3745-65-72(A) (265.72(a)) noted in writing on the manifest document.

4. Have any manifest discrepancies been reconciled within 15 days as required by 3745-65-72(B) (265.72(b)) or has the o/o submitted the required information to the Director/Regional Administrator?

NA NA

5. If the facility has accepted any unmanifested hazardous wastes from off-site sources for treatment, storage, or disposal, has an unmanifested waste report containing all the information required by 3745-65-76(A) (265.76) been submitted to the Director/Regional Administrator within 15 days?

 $\nearrow$  —

# OAC 3745-66 CLOSURE AND POST-CLOSURE (40 CFR PART 265, SUBPART G)

		<u>Y/N/NA</u>	REMARK
Is a w contai	ritten closure plan on file at the facility which ins the following elements: [3745-66-12] (265.112)?	/	<u></u>
a.	A description of how each hazardous waste management unit will be closed in accordance with 265.11.		
b.	A description of how final closure will meet the requirements of 3745-66-11 (265.111).		
c.	An estimate of the maximum amount of hazardous waste in inventory.		
d.	A description of steps taken to remove or decontaminate facility equipment containment systems, structures, soils, and all hazardous waste residues.		
e.	The year closure is expected to begin and a schedule		
f.	A description of other activities necessary to ensure closure with the performance standards including ground water monitoring, leachate collection, and run-off control.		
	he closure plan (and post-closure plan, if applicable) been ed 60 days prior to any changes in facility design, esses, or closure dates or 60 days after an unexpected event		

- 3. Has the closure plan (and post-closure plan, if applicable) for surface impoundment, waste pile, land treatment or landfill units been submitted to the Director/Regional Administrator 180 days prior to beginning the closure process or 45 days if only have tanks, container storage or incinerator? [3745-66-12(D)] (265.112(d))
- 4. Has the closure plan (and post-closure plan, if applicable) for tank, containers storage or incinerator units been submitted to the Director/Regional Administrator 45 days prior to beginning the closure process? [3745-66-12(D) (265.112(d))

ALLOSURE
HAS NOT
BEEN
IN. TIATED
AT THIS
TIME

<u>Y/N/NA</u>	REMARK	#

5.	Within 90 days of receipt of the final volume of Waste or Director's plan approval, if that is later, was all hazardous waste treated, removed, or disposed in accordance with the approved plan? [3745-66-13(A)] (265.113(a))	~//4
6.	Was closure completed in accordance with the approved plan within 180 days after receipt of final volume of waste or approval of the plan, if that is later? [3745-66-13(B)] (265.113(b))	~/A
7.	Did the onwer/operator submit to the Director/Regional Administrator, within sixty (60) days after completion of closure, certification by both the owner/operator and an independent registered professional engineer that the facility has been closed in accordance with the approved closure plan? [3745-66-15] (265.115)	W/A
8.	What permitted units at the facility have been closed in accordance with an approved Closure Plan?	_JONE
9.	If closure was partial, list the regulated units which remain in use at the facility:	
10.	If required, has the facility prepared a written post-closure plan? [3745-66-18] (265.118)	<u> </u>
11.	Does the post-closure plan include:	
	<ul> <li>a. A description of proposed ground water monitoring?</li> <li>b. A description of planned maintenance activities?</li> <li>c. The name, address and phone number of person/office to contact during the post-closure period?</li> </ul>	
12.	For disposal facilities, has the owner/operator submitted to local land authorities and the Director a survey plat within 60 days afte certification of closure? [3745-66-19] (265.119)	r //A

Y/N/NA	REMARK	ž
T / BY BA	NEMARK.	•

13.~96Has the owner of the property on which a disposal unit is located recorded on the deed that:

a. The land has been used to manage hazardous waste and the type, quantity and location of waste?

b. Land use is restricted pursuant to 3745-66-17? [3745-66-10] (265.119)

<u>N</u> \_\_\_\_

# PAC 2745-68 LANDFILLS (40 CFR PART 265, SUBPART N)

			<u>Y/N/NA</u>	REMARK :
١.	Genera follow	al Operating Requirements. Does the facility provide the ving:		
	a.	Run-on control capable of handling a 24-hr, 25-yr storm? [3745-68-02(A)] (265.302(a))	_	
	b.	Run-off control capable of handling a 24-hr, 25-yr storm?		
	c.	If run-off is hazardous waste, is it managed in accordance with applicable rules? [3745-68-02(B)]		
	d.	Are facilities associated with run-on and run-off control systems managed to maintain design capacity after rain events? [3745-68-02(C)] (265.302(C))		
	е.	Control of wind dispersal of hazardous waste? [3745-68-02(D)] (265.302(d))	$\overline{\downarrow}$	
2.	Surve [3745	ying and Recordkeeping. Does the operating record include: -68-09] (265.309)		
	a.	A map showing the exact location and dimensions of each ce [3745-68-09(A)] (265:309(a))		
	b.	The contents of each cell and the location of each hazardo waste type within each cell? [3745-68-09(B)] (265.309(b))	us /	No.,
3.	Are i is no	gnitable or reactive wastes treated so the resulting mixture longer ignitable or reactive? [3745-68-12] (265.312(a)(b))	N/i	<i>}</i>

NOTE: IF WASTE IS RENDERED NON-REACTIVE OR NON-IGNITABLE, SEE TREATMENT REQUIREMENTS. IF NOT, THE PROVISIOS OF 3745-65-17 AND 3745-68-12(B) APPLY. (40 CFR 265.17(b))

4.	Does the owner/operator dispose of incompatible wastes in separate cells? [3745-68-13] (265.313) If not, the provisions of 3745-68-15 apply. (265.17(b)	N/A
5.	Are empty containers crushed flat, shredded, or similarly reduced in volume before being buried beneath the surface of the landfill? [3745-68-15] (265.315)	NONE 035ERVED
6.	Are containers at least 90% full prior to placement in the landfill	? N/A BUCK OISPOSAL
7.	Is bulk or non-containerized liquid waste or waste containing free liquids treated so that free liquids are not longer present. [3745-68-14(A)] (265.314(a))	<del></del>
8.	Are containers other than lab packs, ampules, batteries or capacitors holding free liquids placed in the landfill? [3745-68-14(B)] (265.314(b)) If yes, has all free liquid been removed, absorbed or otherwise eliminated?	/A
9.	Has the owner/operator employed Method 9095 (Paint Filter Liquids Test) to demonstrate the absence of free liquids in containerized or bulk waste? [3745-68-14(D)] (265.314(d))	
10.	Are the special requirements for lab pack waste met? [3745-68-16] (265.316)	M/2
11.	Is a written closure/post-closure plan available for inspection at the facility? [3745-66-12] (265.112)	<u> </u>
12.	Has the closure/post-closure plan been amended 60 days prior to any changes in facility design, or operation or no later than 60 days after an unexpected event has occurred which has effectived the closure plan? [3745-66-18(D)] (265.118(d))	

Has the closure/post-closure plan been submitted to the Director/ Regional Administrator 180 days prior to beginning closure? [3745-66-18(E)] (265.118(e))

x / A \_\_\_\_\_

14. Does the plan contain information required in 3745-68-10? (265.310)

N ACALN

Is a closure cost estimate available?

16. Has closure begun?

15.

17. Has the property owner attached a notation to the property deed or other instrument which will notify any potential purchaser that the property has been used to manage hazardous waste and future use of the property is restricted under 3745-66-17(C) (265.117(c)) as required in 3745-66-19 (265.119(b))?

REPORT

ige 1			REFORE	
ceived: (	n 6 / 1 A / 9 9	07/11/8	39 07:35:16	
cerved:	00/14/09	•		
		DDWDADWD	KEMRON ENVIRONMENTAL SERVICES	$\sim$ 1
REFORT O	hio EPA DSHWM	PREPARED	REPROVE DIVINE DADE	Smel Eldergen
то 1	800 Watermark Dr.	Вх	109 STARLITE PARK	demond of Kengen
	.0. Box 1049		MARIETTA, OHIO 45750	<u> </u>
<u>r</u>	olumbus, OH 43266-0149			CERTIFIED BY
<u>C</u> (	olumbus, on 43200 0143	ATTEN	·	
ATTEN S	usan Buchanan		(614) 373-4071	CONTACT H BUSKIRK
		PHUNE	(614) 373-4071	··· —
CLIENT O	EPA_56664 SAMPLES	5 4		CHANDADD METHODOLOGY
CIMENIA O	13 x 11	ALL WORK	PERFORMED IN ACCORDANCE WITH	STANDARD METHODOBOGI:
O YNAGMO:	IIIO EPA	<del></del>		
CILITY 1	800 Watermark Dr.	+ Apalu	sis performed on DI EP-Toxicit	y Leachate
C	olumbus, Ohio 43266-0149	× Alialy	SIS DELIGIMEN OF STATE	
		I/I I I I	enol, CN, F)	
JODY TO K	gon613-2/ American Steel	f(H,f)(X)		
OKN ID X	890613-2/ American Steel			•
TWER				
TRANS _				
TYPE				
Pn. # 3	08731/113088			
T.O. # Z	nder separate cover		•	
INVOICE M	muer separace cover			
			TEST CODES and NAMES used of	n this report
BAMPLE	IDENTIFICATION		Total	•
ι <u> </u>	100000		m-t-1	
2 ASF 002		<u>AS Arsenic</u>	, Total	
3 ASF 007	· · · · · · · · · · · · · · · · · · ·	BA Barium,		B = - :
3 AST 007	· · · · · · · · · · · · · · · · · · ·	CD Cadmium	, Total	RECEIVED
1 ASF 008	K890013 Z	CN Cyanide	, Total	The state of the s
		Chromit	m, Total	JUL 14 1989
		CR Chromit	aity Motals	301 14 1909
			city Metals	<b>8</b> 10 = -
		F Fluoric		OHIO EPA-N.E.D.O.
		HG Mercury	, Total	,
		M8240 Volati	e Organics	
		PB FU Lead, C		ish 'adaptempa and strettlike'
		PD FU LEAU,	ac motal	DECEMED.
			ics, Total	RECEIVED
		<u>SE Seleni</u>	ım, Total	OHIO EPA

JUL 12 1989



REPORT

Work Order # M9-06-143

	, ,	• •		
	Ohio EPA DSHWM  1800 Watermark Dr.  P.O. Box 1049  Columbus, OH 43266-0149		KEMRON ENVIRONMENTAL SERVICES 109 STARLITE PARK MARIETTA, OHIO 45750	Smill Sugar.
ATTEN	Susan Buchanan	ATTEN		
		PHONE	(614) 373-4071	CONTACT H BUSKIRK
CLIENT	<u>OEPA 56664</u> SAMPLES <u>7</u>		<u> </u>	
COMPANY	Ohio EPA	ALL WORK	PERFORMED IN ACCORDANCE WITH S	STANDARD METHODOLOGY.
<b>VCILITA</b>	1800 Watermark Dr.			
	Columbus, Ohio 43266-0149			
WORK ID	K890606-1/ American Steel			
TAKEN				
TRANS				•
TYPE			i <sup>i</sup> .	
	308731/113088		į.	

### SAMPLE IDENTIFICATION

P.O. # 308731/113088 INVOICE under separate cover

TEST CODES and NAMES used on this report

	12 / 1/ L 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	***************************************		
) ]	ASF-011	-Top- K890606-1	EP MET	EP Toxicity Metals
) ]		-Bottm- K890606-1	FLASH	Flashpoint
)2			M8240	Volatile Organics
)3		K890606-1	PH L	pH (Lab)
) 4				
	λSF-005			:
)6	ASF-004	K890606-1		ı
) 7	ASF-003	K890606-1		

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JUL 28 1989

OHIO EPA-N.E.D.O.

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JUL 26 1989



REPORT

vge 12 Test Methodology ceived: 06/14/89 ST CODE AG \_\_\_ NAME Silver, Total 'A Method 200.7 (ICP) or 272.1 (AA - Direct Aspiration) ST CODE AS NAME Arsenic, Total "A Method 206.3 (AA Vapor Hydride) ST CODE BA NAME Barium, Total DA Method 200.7 - (ICAP) or 208.1 (AA - Direct Aspiration) EST CODE CD NAME Cadmium, Total PA Method 200.7 (ICP) or 213.1 (AA - Direct Aspiration) EST CODE CN NAME Cyanide, Total PA Method 335.2 Reflux, Spectrophotometric, Titrimetric EST CODE CR NAME Chromium, Total PA Method 200.7 (ICP) or 218.1 (AA - Direct Aspiration) EST CODE EP MET NAME EP Toxicity Metals (SW-846)PA Method 1310 NAME Fluoride EST CODE F PA Method 340.2 Fluoride Electrode EST CODE HG NAME Mercury, Total PA Method 245.1 (Cold Vapor) EST CODE M8240 NAME Volatile Organics

PA Method 8240 Volatile Organics - Purge and Trap

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JUL 12 1989



KEMRON

REPORT

vge 13
vceived: 06/14/89

Test Methodology

ST CODE PB FU NAME Lead, Total

'A Method 239.2 AA Graphite Furnace

ST CODE PHENOL NAME Phenolics, Total

'A Method 420.1 Spectrophotometric Manual 4-AAP ith distillation

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DIV. of SOLID & HAZ, WASTEMGT. **KEMRON** 

age 16 KEMRON eceived: 06/13/89

REPORT Test Methodology

EST CODE EP MET NAME EP Toxicity Metals

PA Method 1310 (SW-846)

EST CODE FLASH NAME Flashpoint

PA Method 1010 SW-846 (Pensky-Martens Closed-Cup)

EST CODE M8240 NAME Volatile Organics

PA Method 8240 Volatile Organics - Purge and Trap

EST CODE PH L NAME PH (Lab)

PA Method 150.1 - Electrometric

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JUL 26 1989





CLIENT:

Ohio EPA DSHWM

REPORT NO.:

M9-06-143

## ANALYTICAL REPORT FORM

KEMRON SAMPLE #	CLIENT IDENTIFICATION	RESULTS OF ANALYSIS
		PAINT FILTER LIQUID TEST
06-143-04	ASF-006 - K890606-1	NO
06-143-05	ASF-005 - K890606-1	YES
06-143-06	ASF-004 - K890606-1	NO
06-143-07	ASF-003 - K890606-1	ИО

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water- toe of fill area east of plant

49 2 ceived: 06/14/89 KEMRON

REPORT

Work Order # M9-06-166

Results by Sample

| SAMPLE ID | ASF 001 | K890613-2 | SAMPLE # 01 FRACTIONS: A,B |
| Date & Time | Collected | 06/09/89 | 12:08:00 | Category | WATER |
| To | Collected | Collected

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JUL 12 1989



KEMRON

REPORT

Results by Sample

IPLE ID ASF 001

:eived: 06/14/89

K890613-2

TEST CODE M8240 NAME Volatile Organics FRACTION 01A Category WATER Date & Time Collected 06/09/89 12:08:00

FILE #: 20E7197 ANALYST: FSA VERIFIED: DMD uq/L UNITS: 1 INJECTD: 06/15/89 FACTOR: INSTRMT: FINN2 DET LIMIT RESULT COMPOUND CAS# 10 BDL Chloromethane 74-87-3 10 BDL Bromomethane 74-83-9 10 Vinyl chloride BDL75-01-4 10 BDL Chloroethane 75-00-3 5 Methylene chloride BDL 75-09-2 10 BDL Acetone 67-64-1 5 BDL Carbon disulfide 75-15-0 5 1,1-Dichloroethene BDL 75-35-4 5 1,1-Dichloroethane BDL 75-34-3 5 1,2-Dichloroethene (total) BDL 540-59-0 5 BDL Chloroform 67-66-3 5 BDL 1,2-Dichloroethane 107-06-2 10 BDL 2-Butanone 78-93-3 5 1,1,1-Trichloroethane BDL 71-55-6 5 Carbon tetrachloride BDL 56-23-5 10 Vinyl acetate BDL 108-05-4 5 BDLBromodichloromethane 75-27-4 5 1,2-Dichloropropane BDL 78-87-5 5 cis-1,3-Dichloropropene BDL10061-01-5 5 Trichloroethene BDL 79-01-6 5 BDLDibromochloromethane RECEIVED 124-48-1 5 1,1,2-Trichloroethane BDL OHIO EPA 79-00-5 5 BDL Benzene 71-43-2 5 BDL trans-1,3-Dichloropropene JUL 12 1989 10061-02-6 10 BDL2-Chloroethyl vinyl ether 110-75-8 5 BDL Bromoform 75-25-2 DIV. of SOLID & HAZ. WASTE MGT. 10 BDL 2-Hexanone 591-78-6 10 BDL 4-Methyl-2-pentanone 108-10-1 5 Tetrachloroethene BDL 127-18-4



78 4 caived: 06/14/89 KEMRON

REPORT Results by Sample

Work Order # M9-06-160 Continued From Above

MPLE ID ASF 001

K890613-2

FRACTION <u>01A</u> TEST CODE <u>M8240</u> NAME of Date & Time Collected <u>06/09/89 12:08:00</u>

TEST CODE M8240 NAME Volatile Organics
Legted 06/09/89 12:08:00 Category WATER

CAS#	COMPOUND	RESULT	DET	LIMIT
108-88-3	Toluene	BDL		5
<del></del> :	1,1,2,2,-Tetrachloroethane	BDL		5
79-34-5	Chlorobenzene		8	5
108-90-7	Ethyl benzene	BDL		5
100-41-4	Styrene	BDL		5
100-42-5	Xylenes (Total)		12	5
1330-20-7	Ayrenes (10001)			

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DIV. of SOLID & HAZ. WASTE MGT.



OTES AND DEFINITIONS FOR THIS REPORT

DET LIMIT = DETECTION LIMIT

BDL = BELOW DETECTION LIMIT

\* = SEMI-QUANTITATIVE SCREEN ONLY

Page 12 Received: 06/13/89 KEMRON

REPORT

Work Order # M9-06-143

Results by Sample

SAMPLE ID ASF-004 K890606-1 SAMPLE # 06 FRACTIONS: A

Date & Time Collected 06/09/89 11:08:00 Category SLUDGE

FLASH 46

Degrees C

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JUL 26 1989



water acetone - lab assor

Page 5 Received: 06/14/89 KEMRON

REPORT

Work Order # M9-06 166

Results by Sample

SAI	MPLE	ID ASI	7 00	2	K890613-2		SAMPLE Date &	# <u>02</u> Time	FRACTI Collect	ONS: A,B ed 06/09/89	9 12:29:	00 Categ	ory W	ATER
λG	· · · · · · · · · · · · · · · · · · ·	<0. mg/l		λ8	0.02 mg/l As	BA_		0.30 1 Ba	CD	0.01 mg/l Cd	CR	0.2 mg/l Cr	HG	0.001 mg/l Hg
PB	_FU	mg/1	03 Pb	8E	<0.004 mg/l Se									

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DIV. OF SOLID & HAZ, WASTE MGT,
KENRONENNITCHMENTAL SEPTIMES

KEMRON

REPORT

Results by Sample

MPLE ID ASF 002

ceived: 06/14/89

198 6

K890613-2

127-18-4

NAME Volatile Organics TEST CODE M8240 FRACTION 02A Category WATER Date & Time Collected 06/09/89 12:29:00

FILE #: 20E7199 ANALYST: JLJ VERIFIED: DMD ug/L 1 UNITS: INJECTD: 06/15/89 FACTOR: INSTRMT: FINN2 DET LIMIT RESULT COMPOUND CAS# 10 BDLChloromethane 74-87-3 10 BDL Bromomethane 74-83-9 10 BDLVinyl chloride 75-01-4 10 Chloroethane BDL 75-00-3 5 Methylene chloride BDL75-09-2 10 490000 Acetone 67-64-1 5 Carbon disulfide BDL75-15-0 5 1,1-Dichloroethene BDL 75-35-4 5 1,1-Dichloroethane BDL 75-34-3 5 1,2-Dichloroethene (total) BDL540-59-0 5 Chloroform BDL 67-66-3 5 1,2-Dichloroethane BDL 107-06-2 10 BDL 2-Butanone 78-93-3 5 1,1,1-Trichloroethane BDL 71-55-6 5 BDL Carbon tetrachloride 56-23-5 1.0 Vinyl acetate BDL 108-05-4 5 Bromodichloromethane BDL 75-27-4 5 BDL 1,2-Dichloropropane 78-87-5 5 cis-1,3-Dichloropropene BDL 10061-01-5 5 Trichloroethene BDL 79-01-6 5 Dibromochloromethane BDL RECEIVED 124-48-1 5 1,1,2-Trichloroethane BDL OHIO EPA 79-00-5 5 BDL Benzene 71-43-2 5 trans-1,3-Dichloropropene BDLJUL 12 1989 10061-02-6 10 2-Chloroethyl vinyl ether BDL 110-75-8 5 BDL Bromoform 75-25-2 10 DIV. of SOLID & HAZ. WASTE MGT. BDL 2-Hexanone 591-78-6 10 BDL 4-Methyl-2-pentanone 108-10-1 5 Tetrachloroethene BDL



age 7 aceived: 06/14/89 KEMRON

REPORT

Results by Sample

Work Order # M9-06-166 Continued From Above

AMPLE ID ASF 002 K890613-2

FRACTION <u>02A</u> TEST CODE <u>M8240</u> NAME <u>Volatile Organics</u>
Date & Time Collected <u>06/09/89 12:29:00</u> Category <u>WATER</u>

C3 C #	COMPOUND	RESULT	DET	LIMIT
CAS# 108-88-3	Toluene	$\mathtt{BDL}$		5
=- '	1,1,2,2,-Tetrachloroethane	$\mathtt{BDL}$		5
79-34-5	Chlorobenzene		15	5 ·
108-90-7	Ethyl benzene	$\mathtt{BDL}$		5
100-41-4	Styréne	$\mathtt{BDL}$		5
100-42-5	Xylenes (Total)	BDL		5
1330-20-7	VATEUES (10chr)			

SURROGATES

1,2-Dichloroethane-d4
Toluene-d8
p-Bromofluorobenzene

SURROGATES

85 % Recovery

94 % Recovery

78 % Recovery

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DIV. of SOLID & HAZ. WASTE MGT.

KEMRON ENVIRONMENTAL SERVICES

NOTES AND DEFINITIONS FOR THIS REPORT

DET LIMIT = DETECTION LIMIT

BDL = BELOW DETECTION LIMIT

\* = SEMI-QUANTITATIVE SCREEN ONLY

paint shidge in dempster partein secureter not has waste not liquid ignitible - not has waste REPORT

RESULTS by Sample

Work Order # M9-06-143

Received: 06/13/89

Page 15

SAMPLE ID ASF-003

K890606-1

FRACTION <u>07A</u> TEST CODE <u>EP MET</u> NAME <u>EP Toxicity Metals</u>
Date & Time Collected <u>06/09/89 12:43:00</u> Category <u>BLUDGE</u>

EP TOXICITY TEST

UNITS: MG/L				VERIFIED:	RJW
EPA#	CONTAMINANT	RESULT	RCRA LIMIT		
D004	Arsenic	<0.04	5.0		
D005	Barium	0.13	100.0		
D006	Cadmium	<0.01	1.0		
D007	Chromium	<0.02	5.0		
	Lead	<0.2	5.0		
D008	Mercury	<0.001	0.2		
D009	Selenium	<0.04	1.0		
D010	Silver	<0.04	5.0		
D011	Sliver				

NOTES AND DEFINITIONS FOR THIS REPORT.

NA = NOT ANALYZED

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KEMRON

REPORT

Results by Sample

SAMPLE # 07 FRACTIONS: A

Date & Time Collected 06/09/89 12:43:00 Category SLUDGE page 14 Received: 06/13/89 K890606-1 SAMPLE ID ASF-003 FLASH\_ Degrees C

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JUL 2 6 1989



Scrap Paint + debris - parres quid/ignitible/ leaz waste

Page 11

Received: 06/13/89

KEMRON

Work Order # M9-06-143

Results by Sample

K890606-1 SAMPLE ID ASF-005

TEST CODE EP MET NAME EP Toxicity Metals FRACTION 05A Date & Time Collected 06/09/89 13:18:00

Category LIQUID

EP TOXICITY TEST

UNITS: MG/L	Ž		•	VERIFIED: RJW
EPA#	CONTAMINANT	RESULT	RCRA LIMIT	
D004	Arsenic	<0.04	5.0	
D005	Barium	0.28	100.0	
D006	Cadmium	<0.01	1.0	
D007	Chromium	<0.02	5.0	
D008	Lead	<0.2	5.0	
D009	Mercury	0.001	0.2	
D010	Selenium	<0.04	1.0	
D011	Silver	<0.04	5.0	

NOTES AND DEFINITIONS FOR THIS REPORT. NA = NOT ANALYZED

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Fage 10 Received: 06/13/89 KEMRON

REPORT

Work Order # M9-0-143

Results by Sample

SAMPLE # 05 FRACTIONS: A K890606-1 SAMPLE ID ASF-005 Date & Time Collected 06/09/89 13:18:00 Category LIQUID FLASH \_ Degrees C

RECEIVED OHIO EPA

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pludge/barrel/not a liquid

REPORT

Work Order # M9-L-143

Results by Sample

TEST CODE EP MET NAME EP Toxicity Metals FRACTION 04A K890606-1 Category **SLUDGE** SAMPLE ID ASF-006 Date & Time Collected 06/09/89 13:38:00

EP TOXICITY TEST

Page 9

Received: 06/13/89

UNITS: MG/L VERIFIED: RJW

F.F. = 51°F

EPA#	CONTAMINANT	RESULT	RCRA LIMIT
D004	Arsenic	<0.04	5.0
D005	Barium	0.14	100.0
D006	Cadmium	<0.01	1.0
D007	Chromium	<0.02	5.0
D008	Lead	<0.2	5.0
D009	Mercury	<0.001	0.2
D010	Selenium	<0.04	1.0
.D011	Silver	<0.04	5.0

NOTES AND DEFINITIONS FOR THIS REPORT. NA = NOT ANALYZED

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foundry sand and not haz
REPORT WO

KEMRON

Work Order # M9-06-106

ceived: 06/14/89

CN

Results by Sample

SAMPLE # 03 FRACTIONS: A K890613-2 SAMPLE ID ASF 007 Date & Time Collected 06/09/89 14:00:00 Category SOLID

PHENOL <0.002 \* mg/l Phenol mg/1 Fmg/1 CN

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JUL 12 1989



KE

Results by Sample

MPLE ID ASF 007

rceived: 06/14/89

K890613-2

FRACTION <u>03A</u> TEST CODE <u>EP MET</u> NAME <u>EP Toxicity Metals</u>
Date & Time Collected <u>06/09/89 14:00:00</u> Category <u>80LID</u>

EP TOXICITY TEST

UNITS: MG/L				VERIFIED: RJW
EPA#	CONTAMINANT	RESULT	RCRA LIMIT	
D004	Arsenic	<0.04	5.0	
D005	Barium	0.18	100.0	
D006	Cadmium	<0.01	1.0	* .
D007	Chromium	<0.02	5.0	
D008	Lead	<0.2	5.0	
D009	Mercury	<0.001	0.2	
D010	Selenium	<0.04	1.0	
	Silver	<0.04	5.0	
D011	5.11.7.52			

REPORT

NOTES AND DEFINITIONS FOR THIS REPORT.

NA = NOT ANALYZED

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foundry sand or core sand not hoz REPORT W

Page 10 leceived: 06/14/89 KEMRON

Work Order # M9-06-166

Results by Sample

SAMPLE # 04 FRACTIONS: A K890613-2 Category **SOLID** SAMPLE ID ASF 008 Date & Time Collected 06/09/89 14:15:00 PHENOL 0.033 \* 0.1 \* <0.01 \* CN mg/l Phenol mg/l F mg/l CN

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KEMRON

REPORT

Results by Sample

Received: 06/14/89

SAMPLE ID ASF 008

Page 11

K890613-2

FRACTION <u>04A</u> TEST CODE <u>EP MET</u> NAME <u>EP Toxicity Metals</u>
Date & Time Collected <u>06/09/89 14:15:00</u> Category <u>80LID</u>

EP TOXICITY TEST

UNITS: MG/L			•	VERIFIED: RJ	ΙW
EPA#	CONTAMINANT	RESULT	RCRA LIMIT		
D004	Arsenic	<0.04	5.0		
D005	Bartium	0.1	100.0		
D006	Cadmium	<0.01	1.0		
D007	Chromium	<0.02	5.0		
D008	Lead	<0.2	5.0		
D009	Mercury	<0.001	0.2		
D010	Selenium	<0.04	1.0		
D011	silver	<0.04	5.0	•	

NOTES AND DEFINITIONS FOR THIS REPORT.

NA = NOT ANALYZED

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JUL 12 1989



009-drum stable (brick blag.)
2 shase not correseved.)

'age 8.	KEM	RON	REPORT	Work	Order # M9-06-143
ecaived: 06/13/89	Jerum Stable soint	Results by			
SAMPLE ID ASF-010	R890606-1.	SAMPLE # 02 Date & Time	FRACTIONS: A Collected 06/09/89	14:50:00	Category LIQUID
FLASH >95 Degrees C	not kazwai	t			
SAMPLE ID ASF-009	K890606-1	SAMPLE # 03 Date & Time	FRACTIONS: A Collected 06/09/89		Category LIQUID
PH_L 10.4 S.U.					
SAMPLE ID ASF-006	K890606-1	SAMPLE # <u>04</u> Date & Time	FRACTIONS: A Collected 06/09/89	13:38:00	Category <u>SLUDGE</u>
FLASH 51 Degrees C					

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JUL 26 1989



108-90-7

REPORT aresults by Sample

Received: 06/13/89

TEST CODE M8240 NAME Volatile Organics FRACTION 01A SAMPLE ID ASF-011 -Top- K890606-1 Category LIQUID Date & Time Collected 06/09/89 15:26:00

> FILE #: 20E7229 ANALYST: SPL mg/L 5 UNITS: INJECTD: 06/19/89 FACTOR: INSTRMT: FINN2 DET LIMIT COMPOUND RESULT CAS# VERIFIED: DMD 50 BDL Chloromethane 74-87-3 50 Bromomethane BDL 74-83-9 50 Vinyl chloride BDL75-01-4 50 BDL Chloroethane 75-00-3 30 Methylene chloride 400 75-09-2 50 500 Adetone 67-64-1 30 Carbon disulfide BDL 75-15-0 30 1,1-Dichloroethene 200 75-35-4 30 1,1-Dichloroethane BDL75-34-3 30 1,2-Dichloroethene (total) BDL 540-59-0 30 Chloroform BDL 67-66-3 30 1,2-Dichloroethane BDL 107-06-2 50 BDL 2-Butanone 78-93-3 30 850 1,1,1-Trichloroethane 71-55-6 30 Carbon tetrachloride BDL56-23-5 50 BDLVinyl acetate 108-05-4 30 Bromodichloromethane BDL 75-27-4 30 1,2-Dichloropropane BDL 78-87-5 30 cis-1,3-Dichloropropene BDL 10061-01-5 30 Trichloroethene BDL 79-01-6 30 BDL Dibromochloromethane 124-48-1 30 1,1,2-Trichloroethane BDL 79-00-5 30 BDL Benzene 71-43-2 30 trans-1,3-Dichloropropene BDL RECEIVED 10061-02-6 50 BDL 2-Chloroethyl vinyl ether OHIO EPA 110-75-8 30 BDL Bromoform 75-25-2 50 BDL JUL 26 1989 2-Hexanone 591-78-6 50 BDL 4-Methyl-2-pentanone 108-10-1 30 1400 Tetrachloroethene 127-18-4 DIV. of SOLID & HAZ. WASTE MGT. 30 290 Toluene 108-88-3 30 1,1,2,2,-Tetrachloroethane 210 79-34-5 30 Chlorobenzene BDL



Page 4 Received: 06/13/89 KEMRON

REPORT Results by Sample

Work Order # M9 6-143 Continued From Above

SAMPLE ID ASF-011 -Top- K890606-1

FRACTION <u>01A</u> TEST CODE <u>M8240</u> NAME <u>Volatile Organics</u>
Date & Time Collected <u>06/09/89 15:26:00</u> Category <u>LIQUID</u>

CAS#	COMPOUND	RESULT	DET	LIMIT 30
100-41-4	Ethyl benzene Styrene	BDL BDL		30
100-42-5 1330-20-7	Xylenes (Total)	74	0	30

NOTES AND DEFINITIONS FOR THIS REPORT

DET LIMIT = DETECTION LIMIT

BDL = BELOW DETECTION LIMIT

\* = SEMI-QUANTITATIVE SCREEN ONLY

RECEIVED OHIO EPA

JUL 26 1989



Page 2 Received: 06/13/89 KEMRON

REPORT

Work Order # M. -06-143

Results by Sample

SAMPLE # <u>01</u> FRACTIONS: <u>A</u>
Date & Time Collected <u>06/09/89 15:26:00</u> Category <u>LIQUID</u>

PLASH

Degrees C

SAMPLE ID ASF-011 -Top- K890606-1

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JUL 26 1989



7 3000 ppm miling waste + oil
REPORT
RESULTS by Sample

Page 6 Received: 06/13/89

SAMPLE ID ASF-011-Bottm- K890606-1

FRACTION <u>01B</u> TEST CODE <u>M8240</u> NAME <u>Volatile Organics</u>
Date & Time Collected <u>06/09/89 15:26:00</u> Category <u>LIQUID</u>

FILE #: 20E7221 ANALYST: PJK VERIFIED: DMD uq/L UNITS: INJECTD: 06/16/89 FACTOR: INSTRMT: FINN2 DET LIMIT RESULT COMPOUND CAS# 50 BDL Chloromethane 74-87-3 50 BDL Bromomethane 74-83-9 50 Vinyl chloride BDL 75-01-4 50 Chloroethane BDL75-00-3 30 Methylene chloride 18000 75-09-2 50 2700 Acetone 67-64-1 30 Carbon disulfide BDL75-15-0 30 150 1,1-Dichloroethene 75-35-4 30 1,1-Dichloroethane BDL 75-34-3 30 1,2-Dichloroethene (total) BDL 540-59-0 30 BDL Chloroform 67-66-3 30 1,2-Dichloroethane BDL 107-06-2 50 BDL 2-Butanone 78-93-3 140 30 1,1,1-Trichloroethane 71-55-6 30 BDL Carbon tetrachloride 56-23-5 50 Vinyl acetate BDL 108-05-4 30 BDL Bromodichloromethane 75-27-4 30 1,2-Dichloropropane BDL 78-87-5 30 cis-1,3-Dichloropropene BDL 10061-01-5 30 Trichloroethene BDL 79-01-6 30 BDL Dibromochloromethane 124-48-1 30 1,1,2-Trichloroethane BDLRECEIVED 79-00-5 30 BDL OHIO EPA Benzene 71-43-2 30 BDLtrans-1,3-Dichloropropene 10061-02-6 50 2-Chloroethyl vinyl ether BDL JUL 26 1989 110-75-8 30 BDLBromoform 75-25-2 50 BDL 2-Hexanone 591-78-6 50 DIV. of SOLID & HAZ. WASTE MGT. BDL 4-Methyl-2-pentanone 108-10-1 30 1200 Tetrachloroethene 127-18-4



PAGE 7 Received: 06/13/89 KEMRON Results by Sample Work Order # M9-0t 143 Continued From Above

SAMPLE ID ASF-011-Bottm- K890606-1 FRACTION 01B Date & Time Collected 06/09/89 15:26:00

TEST CODE M8240 NAME Volatile Organics Category LIQUID

03 D H	COMPOUND	RESULT	DET LIMIT	
CAS#	Toluene	150	30	
108-88-3	· · ·	4.6	5 30	
79-34-5	1,1,2,2,-Tetrachloroethane Chlorobenzene	BDL	30	
108-90-7		BDL	30	
100-41-4	Ethyl benzene	BDL	30	
100-42-5	Styrene	180 180		
1330-20-7	Xylenes (Total)	YO	<b>.</b> J0	

SURROGATES 83 % Recovery 1,2-Dichloroethane-d4 78 % Recovery Toluene-d8 85 % Recovery p-Bromofluorobenzene

REPORT

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JUL 26 1989

NOTES AND DEFINITIONS FOR THIS REPORT DET LIMIT = DETECTION LIMIT BDL = BELOW DETECTION LIMIT \* = SEMI-QUANTITATIVE SCREEN ONLY



Page 5 Received: 06/13/89 KEMRON

REPORT

Work Order # M9-06-143

Results by Sample

SAMPLE # 01 FRACTIONS: B

Date & Time Collected 06/09/89 15:26:00 Category LIQUID

FLASH \_

Degrees C

SAMPLE ID ASF-011-Bottm- K890606-1

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JUL 26 1989



Paga 1 Received:	07/07/89	KEMRON 07/20/8	REPORT 39 08:25:55	Work Order # M9-07-081
	Ohio EPA DSHWM  1800 Watermark Dr.  P.O. Box 1049	PREPARED BY	KEMRON ENVIRONMENTAL S 109 STARLITE PARK MARIETTA, OHIO 45750	SERVICES  David W Sedruk  CERTIFIED BY
ATTEN	Columbus, OH 43266-0149 Susan Buchanan	ATTEN PHONE	(614) 373-4071	CONTACT H BUSKIRK
COMPANY	OEPA 56664 SAMPLES Ohio EPA 1800 Watermark Dr. Columbus, Ohio 43266-0149	4 ALL WORK	PERFORMED IN ACCORDANC	CE WITH STANDARD METHODOLOGY.
TAKEN TRANS TYPE P.O. #	American Steel Found/K89070  308731/113088 under separate cover	<del></del>		
BAMPLI	E IDENTIFICATION	MET EP Toxi	TEST CODES and NAMES city Metals	used on this report

02 ASF101LF 03 ASF102LF 04 ASF103LF

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JUL 24 1989



KEMRON

REPORT

Work Order # M9-07-081

Results by Sample

AMPLE ID ASF100LF K8907061

FRACTION <u>01A</u> TEST CODE <u>EP MET</u> NAME <u>EP Toxicity Metals</u>
Date & Time Collected <u>06/30/89 13:50:00</u> Category <u>SOLID</u>

EP TOXICITY TEST

UNITS: MG/L				VERIFIED: RJW
EPA#	CONTAMINANT	RESULT	RCRA LIMIT	
D004	Arsenic	<0.04	5.0	
D005	Barium	0.97	100.0	
D006	Cadmium	<0.01	1.0	
D007	Chromium	<0.02	5.0	
D008	Lead	<0.2	5.0	
D009	Mercury	NA	0.2	
D010	Selenium	<0.04	1.0	
D011	Silver	<0.04	5.0	

NOTES AND DEFINITIONS FOR THIS REPORT.

NA = NOT ANALYZED

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JUL 24 1989



REPORT

Work Order # M9-07-081

nge 3 mcmived: 07/07/89

Results by Sample

K8907061 AMPLE ID ASF101LF

TEST CODE EP MET NAME EP Toxicity Metals FRACTION <u>02A</u> Category SOLID Date & Time Collected 06/30/89 14:00:00

EP TOXICITY TEST

UNITS: MG/L				VERIFIED: RJW
EPA#	CONTAMINANT	RESULT	RCRA LIMIT	
D004	Arsenic	<0.04	5.0	
D005	Barium	0.20	100.0	·
D006	Cadmium	<0.01	1.0	
D007	Chromium	<0.02	5.0	
D008	Lead	<0.2	5.0	
D009	Mercury	NA	0.2	
D010	Selenium	<0.04	1.0	
D011	Silver	<0.04	5.0	

NOTES AND DEFINITIONS FOR THIS REPORT. NA = NOT ANALYZED

D011

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\*ceived: 07/07/89

AMPLE ID ABF102LF

REPORT KEMRON Results by Sample

Work Order # M9-07-081

TEST CODE EP MET NAME EP Toxicity Metals FRACTION 03A K8907061 Date & Time Collected 06/30/89 14:10:00

Category BOLID

EP TOXICITY TEST

UNITS: MG/L VERIFIED: RJW RCRA LIMIT RESULT CONTAMINANT EPA# 5.0 <0.04 Arsenic D004 100.0 0.39 Barium D005 1.0 Cadmium <0.01 D006 5.0 Chromium <0.02 D007 5.0 <0.2 Lead D008 0.2 Mercury NA D009 1.0 <0.04 Selenium D010 5.0 Silver <0.04 D011

NOTES AND DEFINITIONS FOR THIS REPORT. NA = NOT ANALYZED

> **RECEIVED** OHIO EPA

JUL 24 1989



REPORT KEMRON

Work Order # M9-07-081

Results by Sample

TEST CODE EP MET NAME EP Toxicity Metals FRACTION 04A AMPLE ID ASF103LF K8907061 Date & Time Collected 06/30/89 14:20:00 Category **BOLID** 

EP TOXICITY TEST

UNITS: MG/L VERIFIED: RJW RCRA LIMIT CONTAMINANT RESULT EPA# 5.0 <0.04 Arsenic D004 100.0 0.07 Barium D005 1.0 <0.01 Cadmium D006 5.0 Chromium <0.02 D007 5.0 <0.2 Lead D008 0.2 Mercury NA D009 1.0 Selenium <0.04 D010 5.0 Silver <0.04 D011

NOTES AND DEFINITIONS FOR THIS REPORT. NA = NOT ANALYZED

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nge 6 nceived: 07/07/89 KEMRON

REPORT

Test Methodology

EST CODE EP MET NAME EP Toxicity Metals

PA Method 1310 (SW-846)

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Work Order # M9-07-01

JUL 24 1989



# KEMRON Environmental Services

# QUALITY ASSURANCE DAILY REPORT

Laboratory:

Ohio Valley

Date:

Ø7/18/89

-										
			REFERI	ENCE ST	ANDARD		DUPLICA!	TE SAMPLE		
Parameter	Units	Analyst	Known	Result	UCLX	LCLx	Resultl	Result2	Range U	CLr
	(1	TUN	16	9.33	*	*	-1,167	-1.14	0.027	*
TIN-AA	mg/1	JKM	20 20	20.5	21.5	19.3	84	84	Ω	*
CHLORIDE	mg/1	VIAV	29	0.907	¢.993		-0.002	-0.002	Ø	*
CADMIUM-ICP	mg/l	JKM	T		=	0.977		:	0.002	*
CHRONIUM-ICP	mg/l	JKM	1.02	0.988	1.667		-	g.197	0.017	*
BARIUM-ICP	mg/l	JKM	1.02		1.106					*
SILVER-ICP	mq/1	JKM	0.2	U.17	*	*	<del>-</del> ნ.რწl	υ	0.001	
LEAD-ICP	mg/l	JKH	1.02	0.992	*	*	0,004	ប	0.904	*

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JUL 2 4 1989

UCLr = Upper Control Limit (Range)

<sup>\* =</sup> Initial Data Collection

Page 2

LEAD-ICP

## KEMRON Environmental Services

### QUALITY ASSURANCE DAILY REPORT

Ohio Valley Laboratory: MATRIX/MEDIA SPIKE METHOD BLANK UCLb Conc. Recovery Rec.(%) UCLs(%) LCLs(%) Units Analyst Result Parameter 111 11.14 0.15 10 JKt:  $\log/1$ TIN-AA 21.5 108 20 Ø  $r_{\rm eg}/1$ WM. CHLORIDE 0.992 99 1 -0.001 mg/1JKMCADMIUM-ICP 95 0.965 1.02  $1/\epsilon$ Û JKI: CHROMIUM-ICP 99 1.02 1.01 -0.001 JKH BARIUM-ICP r.g/1Ø.189 95 V.2 JKH 0  $m_{\rm H}/1$ SILVER-1CP

0.003

JKh

mg/1

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Ø7/18/89

Date:

1.125

1.02

110

JUL 24 1989

UCLE = Upper Control Limit (Blank)

UCLs = Upper Control Limit (Spike Necovery)

LCLs = Lover Control Limit (Spike Recovery)

<sup>\* =</sup> Initial Data Collection

#### KEMRON Environmental Services

# QUALITY ASSURANCE DAILY REPORT

67/19/89 Date: Ohio Valley Laboratory:

		REFERENCE STANDARD DUPLICATE SAMPLE									
Parameter	Units	Analyst	Known	Result	UCLx	LCLx	Resultl	Result2	Range l	JCLr	
		JKN	0.05	0.0512	0.06	0.042	0.0006	0.0301	ପ. ଅଧ୍ୟର	*	
SELENIUM-VH TPH	mg/l mg/l	TET	100	lúl	*	*	1300	1306	Ø	*	
ARSENIC-VH	ng/l	JKN	0.051	0.0495	0.057	Ø.945	0.0037	<b>0.003</b> 3	0.0064	*	
CADITUE-ICP	mg/1	JKli	1	0.989	0.993	0.921	Ð	. 8	Ø	*	
CHROLIUM-ICP	mg/l	JKM	1.02	1.04	1.067	0.977	0.025	0.021	0.004	*	
BARIUM-ICP	mg/l	JKM	1.62		1.106	0.908	1.05	ø.973	<b>0.</b> 277	*	
SILVER-ICP	ng/l	JKM	0.2	0.172	. *	*	0.009	-0.003	0.012	*	
LEAD-ICF	mg/1	JKN	1.62		*	*	⊈.046	0.058	0.C12	*	
MERCURY-CV	mg/l	JKM	ย่าต่า	0.0096	0.013	0.007	0.0003	6.0002	0.0001	*	
		DIH	ö.05			0.04	0.13	0.11	ม.02	*	
PHENOLICS LEAD-FURNACE	mg/l mg/l	JKM	0.051	0.049		*	0.006	€.009	0.003	*	

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JUL 2 4 1989

DIV. of SOLID & HAZ. WASTE MGT.

UCLx = Upper Control Limit (Standard)

LCLx = Lower Control Limit (Standard) UCLr = Opper Control Limit (Range)

\* = Initial Data Collection

Page 2

# KEMRON Environmental Services

### QUALITY ASSURANCE DAILY REPORT

Laboratory:

Ohio Valley

Date:

07/19/89

		METHOD BLA	METHOD BLANK MA		MATRIX/MEDIA SPIKE			
Units	Analyst	Result	UCLb	Conc.	Recovery	Rec.(%)	UCLs(%)	LCLs(%)
		" D002	*	0.05	0.0435	87	*	*
_			*		25.5	162	*	*
_			•	•	e 9472	93	*	* *
				זרמ•ת			*	*
	JKM	_		בט נ			*	*
mg/l	JKM	-				=	*	*
mg/1	JKM:						*	*
	JKM	0.301					*	*
_	JKN	6.004	*					*
	JKM	0.0001	*	6.01				*
		0.001	*	0.5	₽.533	197		
			*	0.051	0.041	88	*	*
	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	mg/l JIO: mg/l MET mg/l JKO: mg/l DIH	mg/l       JIO       0.0002         mg/l       MET       0         mg/l       JKH       0.0002         mg/l       JKH       0.0002         mg/l       JKH       0.0003         mg/l       JKH       0.0003         mg/l       JKH       0.0004         mg/l       JKH       0.0001         mg/l       DIH       0.0001	mg/l       JRM       0.0002       *         mg/l       MET       0       *         mg/l       JKH       0.0002       *         mg/l       JKM       0.002       *         mg/l       JKM       0.002       *         mg/l       JKM       0.003       *         mg/l       JKM       0.001       *         mg/l       JKM       0.0001       *         mg/l       DIH       0.0001       *         mg/l       DIH       0.0001       *	Units Analyst Result UCLb Conc.  mg/l JIO	Units Analyst Result UCLb Conc. Recovery  mg/l JKM	Units Analyst Result UCLb Conc. Recovery Rec.(%)  mg/l JiM	Units Analyst Result  UCLb Conc. Recovery Rec.(%) UCLs(%)  mg/l JKN

RECEIVED OHIO EPA

JUL 24 1989

DIV. of SOLID & HAZ. WASTE MGT.

UCLb = Upper Control Limit (Elank)

UCLs = Upper Control Limit (Spike Recovery)
LCLs = Lower Control Limit (Spike Recovery)
\* = Initial Data Collection

Page 1	KEMRON	REPORT
Received: 06/14/89	07/17/89	15:03:28

Work Order # M9-06-166

Received	: 06/14/89		0//1//89 15:05:20	
REPORT	Ohio EPA DSHWM	I	PREPARED KEMRON ENVIRONMENTAL SERVICE	<u>es</u> ()
TO	1800 Watermark Dr.		BY 109 STARLITE PARK	- N. W. 15
	P.O. Box 1049		MARIETTA, OHIO 45750	- Charles By
	Columbus, OH 43266-0149			CERTIFIED BY /
ATTEN	Susan Buchanan		ATTEN	
			PHONE (614) 373-4071	CONTACT <u>H_BUSKIRK</u>
CLIENT	OEPA 56664 SAMPLE	ES <u>4</u>	A E	
	Ohio EPA	<u>P</u>	ALL WORK PERFORMED IN ACCORDANCE WITH	I STANDARD METHODOLOGY.
FACILITY	1800 Watermark Dr.			mm m
	Columbus, Ohio 43266-0149	<u>, , , , , , , , , , , , , , , , , , , </u>	* Analysis performed on Ohio EPA DI	EP-Toxicity Leachate
		_	(Phenol, CN, F)	
WORK ID	K890613-2/ American Steel			
TAKEN				
TRANS				•
TYPE			Warner and the second s	
P.O. #	8731/113088	<u> </u>		
INV. #	500915			
			*	bhis manart
SAHPLI	E IDENTIFICATION		TEST CODES and NAMES used	on this report
01 ASF 0	01 K890613-2	<u>AG</u>	Silver, Total	
02 ASF 0	02 K890613-2	<u>AS</u>	Arsenic, Total	
03 ASF 0	07 K890613-2	<u>BA</u>	Barium, Total	
04 ASF 0	08 K890613-2	CD	Cadmium, Total	
		CN	Cyanide, Total	
		CR	Chromium, Total	
		EP MET		
		<u>F</u>	Fluoride	
		HG	Mercury, Total	
		M8240		
		PB_FU_		
			Phenolics, Total	
	•	SE	Selenium, Total	per savette de la companya del companya de la companya del companya de la companya del companya de la companya de la companya de la companya del companya de la companya de

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JUL 21 1989



Sage 2

KEMRON

REPORT

Work Order # M9-06-166

Received: 06/14/89

Results by Sample

SAMPLE ID ASF 001	K890613-2	SAMPLE # <u>01</u> Date & Time	FRACTIONS: A,B Collected 06/09/8	9 12:08:00 Categ	ory WATER
λG <0.01 λs mg/l λg	0.01 BA mg/l As	<b>0.86</b> mg/l Ba	CD <0.01 mg/l Cd	CR <0.02 mg/1 Cr	HG <0.0005 mg/l Hg
PB_FU0.067	<0.004 mg/l Se				

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JUL 21 1989



KEMRON

REPORT

Results by Sample

Received: 06/14/89

PAGE 3

K890613-2

FRACTION <u>01A</u> TEST CODE <u>M8240</u> NAME <u>Volatile Organics</u>
Date & Time Collected <u>06/09/89 12:08:00</u> Category <u>WATER</u>

FILE #: 20E7197 ANALYST: FSA VERIFIED: DMD ug/L UNITS: INJECTD: 06/15/89 FACTOR: 1 INSTRMT: FINN2 DET LIMIT RESULT COMPOUND CAS# 10 BDLChloromethane 74-87-3 10 BDL Bromomethane 74-83-9 10 Vinyl chloride BDL 75-01-4 10 Chloroethane BDL 75-00-3 5 Methylene chloride BDL 75-09-2 10 BDLAcetone 67-64-1 5 Carbon disulfide BDL75-15-0 5 1,1-Dichloroethene BDL 75-35-4 5 1,1-Dichloroethane BDL 75-34-3 5 1,2-Dichloroethene (total) BDL540-59-0 5 BDL Chloroform 67-66-3 5 1,2-Dichloroethane BDL 107-06-2 10 BDL 2-Butanone 78-93-3 5 1,1,1-Trichloroethane BDL 71-55-6 5 Carbon tetrachloride BDL56-23-5 10 BDLVinyl acetate 108-05-4 5 Bromodichloromethane BDL 75-27-4 5 1,2-Dichloropropane BDL 78-87-5 5 cis-1,3-Dichloropropene BDL 10061-01-5 RECEIVED 5 Trichloroethene BDL79-01-6 OHIO EPA 5 Dibromochloromethane BDL 124-48-1 5 1,1,2-Trichloroethane BDL 79-00-5 JUL 21 1989 5 BDL Benzene 71-43-2 5 trans-1,3-Dichloropropene BDL 10061-02-6 10 2-Chloroethyl vinyl ether BDLDIV. of SOLID & HAZ. WASTEMGT. 110-75-8 5 BDLBromoform 75-25-2 10 BDL 2-Hexanone 591-78-6 10 4-Methyl-2-pentanone BDL 108-10-1 5 Tetrachloroethene BDL 127-18-4



Page 4 Received: 06/14/89 KEMRON

REPORT

Work Order # M9-06-166 Continued From Above

Results by Sample

TEST CODE M8240 NAME Volatile Organics FRACTION 01A K890613-2 SAMPLE ID ASF 001 Category WATER Date & Time Collected 06/09/89 12:08:00

CAS#	COMPOUND	RESULT	DET	LIMIT
108-88-3	Toluene	$\mathtt{BDL}$		5
79-34-5	1,1,2,2,-Tetrachloroethane	$\mathtt{BDL}$		5
108-90-7	Chlorobenzene		8	5
100-41-4	Ethyl benzene	$\mathtt{BDL}$		5
100-42-5	Styrene	$\mathbf{BDL}$		5
1330-20-7	Xylenes (Total)		12	5

SURROGATES 97 % Recovery 1,2-Dichloroethane-d4 98 % Recovery Toluene-d8 93 % Recovery p-Bromofluorobenzene

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JUL 21 1989

DIV. of SOLID & HAZ. WASTEMGT.

NOTES AND DEFINITIONS FOR THIS REPORT DET LIMIT = DETECTION LIMIT BDL = BELOW DETECTION LIMIT \* = SEMI-QUANTITATIVE SCREEN ONLY



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REPORT

Work Order # M9-06-166

Results by Sample

SAMPLE ID ASF 002	K890613-2	SAMPLE # <u>02</u> Date & Time	FRACTIONS: A,B Collected 06/09/8	9 12:29:00 Cate	ory WATER
AG <0.01 A mg/l Ag	mg/l As	0.30 mg/l Ba	CD 0.01 mg/1 Cd	CR 0.2 mg/1 Cr	HG 0.001 mg/l Hg
PB_FU0.03 B	mg/l Se				

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JUL 21 1989



KEMRON

REPORT

Results by Sample

Received: 06/14/89
SAMPLE ID ABF 002

PAGM 6

K890613-2

FRACTION <u>02A</u> TEST CODE <u>M8240</u> NAME <u>Volatile Organics</u>
Date & Time Collected <u>06/09/89 12:29:00</u> Category <u>WATER</u>

FILE #: 20E7199 ANALYST: JLJ VERIFIED: DMD uq/L UNITS: INJECTD: 06/15/89 FACTOR: 1 INSTRMT: FINN2 DET LIMIT RESULT COMPOUND CAS# 10 BDL Chloromethane 74-87-3 10 BDL Bromomethane 74-83-9 10 Vinyl chloride BDL 75-01-4 10 Chloroethane BDL 75-00-3 5 Methylene chloride BDL 75-09-2 10 490000 Acetone 67-64-1 5 Carbon disulfide BDL 75-15-0 5 1,1-Dichloroethene BDL 75-35-4 5 1,1-Dichloroethane BDL 75-34-3 5 1,2-Dichloroethene (total) BDL540-59-0 5 BDL Chloroform 67-66-3 5 1,2-Dichloroethane BDL 107-06-2 10 BDL 2-Butanone 78-93-3 5 1,1,1-Trichloroethane BDL 71-55-6 5 Carbon tetrachloride BDL 56-23-5 10 BDL Vinyl acetate 108-05-4 5 Bromodichloromethane BDL 75-27-4 5 1,2-Dichloropropane BDL 78-87-5 5 cis-1,3-Dichloropropene BDL10061-01-5 5 Trichloroethene BDL79-01-6 5 RECEIVED Dibromochloromethane BDL124-48-1 5 OHIO EPA BDL 1,1,2-Trichloroethane 79-00-5 5 BDL71-43-2 JUL 21 1989 5 BDL trans-1,3-Dichloropropene 10061-02-6 10 2-Chloroethyl vinyl ether BDL 110-75-8 5 BDL Bromoform DIV. of SOLID & HAZ. WASTE MGT. 75-25-2 10 BDL 2-Hexanone 591-78-6 10 BDL 4-Methyl-2-pentanone 108-10-1 5 Tetrachloroethene BDL 127-18-4

Page 7 Received: 06/14/89 KEMRON

REPORT Results by Sample

Work Order # M9-06-166 Continued From Above

SAMPLE ID ASF 002

K890613-2

FRACTION 02A

TEST CODE M8240 NAME Volatile Organics Date & Time Collected 06/09/89 12:29:00

Category WATER

CAS# 108-88-3 79-34-5 108-90-7 100-41-4 100-42-5	COMPOUND Toluene 1,1,2,2,-Tetrachloroethane Chlorobenzene Ethyl benzene Styrene	RESULT BDL BDL BDL BDL BDL BDL	DET 15	LIMIT 5 5 5 5 5 5 5
1330-20-7	Xylenes (Total)	BDL		5

SURROGATES 1,2-Dichloroethane-d4

Toluene-d8

p-Bromofluorobenzene

85 % Recovery

94 % Recovery

78 % Recovery

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JUL 21 1989

DIV. of SOLID & HAZ. WASTE MGT.

NOTES AND DEFINITIONS FOR THIS REPORT DET LIMIT = DETECTION LIMIT BDL = BELOW DETECTION LIMIT \* = SEMI-QUANTITATIVE SCREEN ONLY



Work Order # M9-06-166

KEMRON

REPORT

Received: 06/14/89

Results by Sample

SAMPLE ID ASF 007	K890613-2	SAMPLE # <u>03</u> Date & Time	FRACTIONS: A Collected 06/09/89 14:00:00	Category SOLID
CN <0.01 * F mg/1 CN	0.3 * PH	ENOL <0.001 * mg/l Phenol		

<sup>\*</sup>Analysis performed on Ohio EPA DI EP-Toxicity Leachate.

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JUL 21 1989



REPORT KEMRON Results by Sample

aceived: 06/14/89 FRACTION 03A TEST CODE EP MET NAME EP Toxicity Metals K890613-2 Category **SOLID** AMPLE ID ASF 007 Date & Time Collected 06/09/89 14:00:00

EP TOXICITY TEST

nge 9

UNITS: MG/L				VERIFIED: RJW
ЕРЛ#	CONTAMINANT	RESULT	RCRA LIMIT	
D004	Arsenic	<0.04	5.0	
D005	Barium	0.18	100.0	
D006	Cadmium	<0.01	1.0	
D007	Chromium	<0.02	5.0	
D008	Lead	<0.2	5.0	
D009	Mercury	<0.001	0.2	
D010	Selenium	<0.04	1.0	
D011	silver	<0.04	5.0	
DATI	•			

NOTES AND DEFINITIONS FOR THIS REPORT. NA = NOT ANALYZED

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JUL 21 1989

Work Order # M9-06-166



KEMRON 'Age 10

REPORT

Work Order # M9-06-166

eceived: 06/14/89

Results by Sample

SAMPLE # 04 FRACTIONS: A K890613-2 SAMPLE ID ASF 008 Date & Time Collected 06/09/89 14:15:00 Category SOLID PHENOL <0.001 \* CN mg/l Phenol mg/1 Fmg/l CN

\*Analysis performed on Ohio EPA DI EP-Toxicity Leachate.

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JUL 21 1989



Page 11 Received: 06/14/89 KEMRON

REPORT

Work Order # M9-06-166

Results by Sample

MAMPLE ID ASF 008 K890613-2

FRACTION <u>04A</u> TEST CODE <u>EP MET</u> NAME <u>EP Toxicity Metals</u>
Date & Time Collected <u>06/09/89 14:15:00</u> Category <u>BOLID</u>

EP TOXICITY TEST

UNITS: MG/L VERIFIED: RJW

EPA#	CONTAMINANT	RESULT	RCRA LIMIT	
D004	Arsenic	<0.04	5.0	
D005	Barium	0.1	100.0	
D006	Cadmium	<0.01	1.0	
D007	Chromium	<0.02	5.0	
D008	Lead	<0.2	5.0	
D009	Mercury	<0.001	0.2	
D010	Selenium	<0.04	1.0	
D011	Śilver	<0.04	5.0	

NOTES AND DEFINITIONS FOR THIS REPORT.

NA = NOT ANALYZED

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JUL 21 1989



### KEMRON

REPORT Test Methodology

Received: 06/14/89 PEST CODE AG NAME Bilver, Total EPA Method 200.7 (ICP) or 272.1 (AA - Direct Aspiration) TEST CODE AS NAME Arsenic, Total EPA Method 206.3 (AA Vapor Hydride) TEST CODE BA NAME Barium, Total EPA Method 200.7 - (ICAP) or 208.1 (AA - Direct Aspiration) TEST CODE CD NAME Cadmium, Total EPA Method 200.7 (ICP) or 213.1 (AA - Direct Aspiration) TEST CODE CN NAME Cyanide, Total Reflux, Spectrophotometric, Titrimetric EPA Method 335.2 NAME Chromium, Total TEST CODE CR EPA Method 200.7 (ICP) or 218.1 (AA - Direct Aspiration) TEST CODE EP MET NAME EP Toxicity Metals EPA Method 1310 (SW-846)NAME Fluoride TEST CODE F\_\_\_\_ EPA Method 340.2 Fluoride Electrode NAME Mercury, Total TEST CODE HG\_\_\_\_ EPA Method 245.1 (Cold Vapor) TEST CODE M8240 NAME Volatile Organics

EPA Method 8240 Volatile Organics - Purge and Trap

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JUL 21 1989



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KEMRON

Test Methodology

REPORT

Work Order # M9-06-166

TEST CODE PB FU NAME Lead, Total

Received: 06/14/89

EPA Method 239.2 AA Graphite Furnace

TEST CODE PHENOL NAME Phenolics, Total

EPA Method 420.1 Spectrophotometric Manual 4-AAP with distillation

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DIV. of SOLID & HAZ. WASTE MGT.





# CHAIN-OF-CUSTODY RECORD

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Turn Around Re	quire	eme	nts:	30 7	DAYS		· · · · · · · · · · · · · · · · · · ·				7 7	<del>,                                    </del>			7	7	7	7 /	, ,	7	/•	2.11	<del>- //</del>	7 /
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## QUALITY ASSURANCE DAILY REPORT

Laboratory:	Ohio Val	.ley				· ·		Date: 07	7/08/89	
		RE	EFERE	NCE STA	ANDARD		DUPLICAT	TE SAMPLE		
Parameter	Units Ar	nalyst Kr	nown	Result	UCLx	LCLx	Resultl	Result2	Range U	CLr
PHENOLICS	mg/l PN	₩ 6	0.05	0.053	0.067	0.04	0.001	0.001	Ø	*

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DIV. of SOLID & HAZ. WASTE MGT.

UCLx = Upper Control Limit (Standard)
LCLx = Lower Control Limit (Standard)
UCLr = Upper Control Limit (Range)
\* = Initial Data Collection

Page 2

KEMRON Environmental Services

QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date:

07/08/89

METHOD BLANK

MATRIX/MEDIA SPIKE

Parameter Units Analyst Result

UCLb Conc. Recovery Rec.(%) UCLs(%) LCLs(%)

PHENOLICS

mg/1 PNW 0.001

Ø.5

Ø.485

97

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DIV. of SOLID & HAZ. WASTE MGT.

LCLs = Lower Control Limit (Spike Recovery)

<sup>\* =</sup> Initial Data Collection

## QUALITY ASSURANCE DAILY REPORT

Laboratory:

Ohio Valley

Date:

07/06/89

	*		REFERI	ENCE ST	ANDARD		DUPLICAT	TE SAMPLE		
Parameter	Units	Analyst	Known	Result	UCLx	LCLx	Resultl	Result2	Range	UCLr
MOLYBDENUM-ICP	mg/l	JKM	1	1.01	*	*	0.092	0.096	0.004	*
TITANIUM-ICP	mg/1	JKM	5	4.76	*	*	0.14	0.145	0.005	*
ALUMINUM-ICP	mg/l	JKM	1	1.1	1.307	0.881	0.012	0.007	0.005	*
BARIUM-ICP	mg/1	JKM	1.02	1	1.106	Ø.908	ទ	0.001	0.001	*
CALCIUM-ICP	mg/1	JKM	10.1	10.2	10.759	9.595	317.5	325	7.5	*
CADMIUM-ICP	mg/l	JKM	1	0.983	Ø.993	0.921	Ø	Ø	Ø	*
CHROMIUM-ICP	mg/1	JKM	1.02	1.04	1.067	Ø.977	Ø	0.001	0.001	. *
IRON-ICP	.mg/l	JKM	1.04	1	1.134	0.96	0.004	0.011	0.007	*
MAGNESIUM-ICP	mg/l	JKM	10	10.1	11.114	9.752	134.25	135	Ø.75	*
MANGANESE-ICP	mg/l	JKM	1.04	1.06	1.083	1.023	0.001	Ø	0.001	*
SODIUM-ICP	mg/l	JKM	10.1			*	0.037	0.04	0.003	*
ZINC-ICP	mg/l	JKM	1			*	0.003	0.006	0.003	*
TOTAL SOLIDS	mg/l	SMC	500			477	488	494	6	*
TDS	mg/l	SMC	500			457	366	420	54	*
TSS	mg/l	JKM	50				3	<1	3	*
CYANIDE	mg/l	WW	0.2					0.01	Ø	*
OIL AND GREASE	mg/l	MET	10					7.9	2.1	*

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DIV OF SOLID & HAZ WASTE MGT.

UCLx = Upper Control Limit (Standard)

LCLx = Lower Control Limit (Standard)

UCLr = Upper Control Limit (Range)
\* = Initial Data Collection

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## QUALITY ASSURANCE DAILY REPORT

Laboratory:

Ohio Valley

Date:

07/06/89

			METHOD BLA	NK	MATRIX	(/MEDIA SE	PIKE		
Parameter	Units	Analyst	Result	UCLb	Conc.	Recovery	Rec.(%)	UCLs(%)	LCLs(%)
100	ma /1	JKM	0.013	*	5	5.05	101	*	*
MOLYBDENUM-ICP	mg/1	JKM	0.008	*	5	4.59	92	*	*
ritanium-icp	mg/l	JKM	-0.003	* .	1	0.94	94	*	* .
ALUMINUM-ICP	mg/1		Ø.006	*	$\bar{1}$	0.976	98	*	*
BARIUM-ICP	mg/1	JKM	-0.003	*	10.1	8.1	8Ø	*	*
CALCIUM-ICP	mg/1	JKM	0.002	*	1	0.993	99	*	*
CADMIUM-ICP	mg/1	JKM	0.002	*	1.02		102	*	*
CHROMIUM-ICP	mg/l	JKM	-0.011	*	1.04	•	87	*	*
IRON-ICP	mg/1	JKM	-0.011	*	10		93	*	*
MAGNESIUM-ICP	mg/l	JKM	0.001	*	1.04		85	*	*
MANGANESE-ICP	mg/1	JKM	Ø.001 Ø.015	*	10.1			*	*
SODIUM-ICP	mg/1	JKM		*	10.1	0.852		. *	*
ZINC-ICP	mg/l	JKM	0.002	*	500		_		*
TOTAL SOLIDS	mg/1	SMC	16	*	500				*
TDS	mg/1	SMC	<del>-</del> 2	*	50				*
TSS	mg/1	JKM	-4						*
CYANIDE	mg/1	WMW	0.001	*	0.2 10				*
OIL AND GREASE	mg/1	MET	Ø	*	<u> </u>	1.5	, ,	•	



JUL 8 1 1989

DIV of SOLID & HAZ. WASTEMGT.

UCLb = Upper Control Limit (Blank)

UCLs = Upper Control Limit (Spike Recovery)

LCLs = Lower Control Limit (Spike Recovery)

\* = Initial Data Collection

Page 2

## QUALITY ASSURANCE DAILY REPORT

\_aboratory:

Ohio Valley

Date:

07/10/89

			METHOD BLA	ANK	MATRIX	K/MEDIA SE	PIKE		
Parameter	Units	Analyst	Result	UCLb	Conc.	Recovery	Rec.(%)	UCLs(%)	LCLs(%)
STRONTIUM-AA	mg/l	JKM	Ø	*	1	Ø.956	96	*	*
CONDUCTIVITY	Us/cm		ø.75	*		npp. app. elite		*	*
		JKM	-0.1	*	10.1	10.2	101	*	*
SODIUM-AA	mg/l	JKN	0.0005	*	1.01	1.035	102	*	*
POTASSIUM-AA	mg/l	SMC	ขึ้นของวิ	*	50	50	100	*	*
HARDNESS	mg/1	DIH	1	*	32	33.8	106	*	*
COD	mg/l		<u> </u>	*	16	_	100	* .	*
COLOR	units			*	0.4	0.39	98	*	*
FLUORIDE	mg/1	DIH	0.05						*
SULFATE	mg/L	WM	2	*	16	'	119		*
CHLORIDE	mg/L	Mai	Ø.2	*	20	. 22	113		
LEAD-FURNACE	mg/L	JKM	0.0005	*	0.051	0.048	94	*	*

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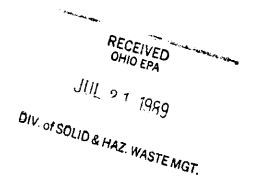
DIV. of SOLID & HAZ. WASTE MGT.

UCLb = Upper Control Limit (Blank)
UCLs = Upper Control Limit (Spike Recovery)
LCLs = Lower Control Limit (Spike Recovery)
\* = Initial Data Collection

## QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley Date: 07/10/89

			REFER	ENCE ST	NDARD		DUPLICAT	TE SAMPLE		
Parameter	Units	Analyst	Known	Result	UCLx	LCLx	Resultl	Result2	Range	UCLr
STRONTIUM-AA	mg/l	JKM	1	1.01	*	*	0.60111	0.591	0.01011	*
CONDUCTIVITY	Us/cm	SMC	1413	1391	1430	1390	1400	1400	Ø	*
SODIUM-AA	mg/1	JKM	10.1	9.5	*	*	108	113.7	5.7	*
POTASSIUM-AA	mg/l	JKI1	1.01	1.957	*	*	0.082	ข.ด776	0.0044	´ <b>*</b>
HARDNESS	mg/1	SMC	100	102	102	98.7	2.4	2.4	Ø	*
COD	mg/1	DIH	320	322	353	285	·		<b></b>	*
COLOR	units		20	20	20	2ช	5	5	Ø	*
FLUORIDE	mq/1	DIH	2	2.1	2.25	1.88	Ø.2	Ø.2	Ø	*
SULFATE	mg/L	WIN	20	18	25.3	16.2			Ø	*
CHLORIDE	mg/L	WMW	20	22.5	21.2	19.3	31	31	Ø	*
LEAD-FURNACE	ng/L	JKM	0.051	0.051	*	*	Ø.03	0.04	0.01	*



UCLx = Upper Control Limit (Standard)

LCLx = Lower Control Limit (Stanoard)

UCLr = Upper Control Limit (Range)



## HAIN-OF-CUSTODY RECORD

Turn Around Red	quii	reme	ents:	<u>-</u> 50	PAV	5.															Pageo	
Project No.:   F Project No.:   F Sampler (print): Azus Coc. Evinu 13: Sample LD. No.	Project Services	ect.	Name:  RICAL  Date	Signe XII Xe_ Time	ature: Colo	OUNCRIES  JOHN  MATHER  SECORFILL  SEDGE	NUMBER OF	CONTRICTO / %	\$0/700 \$0/700 \$.	4C/D EXTRAS	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		<b>9</b> 13 . • • • • • • • • • • • • • • • • • •	JJ	REC OHI	EIVI O EF	ED	ļ			ADDITION REQUIRE LA	NAL EMENTS P. m ETACS
elinquished by: lignature) elinquished by: lignature)	>			Date 7/2/29	Time 7:75	Received by: (Signature)  Received for Labora by: (Signature)	tory			linquis gnatui Date	e)	d by:			narks	si.	Date  11 4	}	Time	(	Received by: Signature)  L. In 500  cal into	- A A. TH

White - Lab

Yellow - Office

Pink - Fie

## QUALITY ASSURANCE DAILY REPORT

Laboratory:

Ohio Valley

Date:

06/14/89

		e e	REFERI	ENCE STA	ANDARD		DUPLICAT	re sample		
Parameter	Units	Analyst	Known	Result	UCLx	LCLx	Resultl	Result2	Range U	CLr
TRON ICD	mg/l	JKM	1.04	1.04	1.24	0.972	Ø.129	0.144	0.015	*
IRON-ICP		WMW	20	19	25.3	16.2	48	48	Ø	*
SULFATE	mg/l mg/l	JKM	0.01	0.0109	0.013	0.007	Ø	Ø	Ø	*
MERCURY-CV		JKM	Ø.05	0.054	*	*	Ø	0.001	0.001	*
TIN-FURNACE	mg/l	DIH	Ø.5	0.482	Ø.55	0.451	1.1	Ø.95	0.15	*
PHENOLICS	mg/1	JKM	1	1.1	1.34		Ø.181	Ø.2	Ø.Ø19	*
ALUMINUM-ICP	mg/1		1	0.973	1.137	0.909	0.021		0.008	*
ANTIMONY-ICP	mg/l	JKM	1.02		* * *	*	0.026		0.001	*
BARIUM-ICP	mg/1	JKM	10.1		10.7	9.71			Ø.95	*
CALCIUM-ICP	mg/l	JKM	10.1	Ø.942		*	Ø		Ø	*
CADMIUM-ICP	mg/l	JKM				*	Ø.011		Ø	*
CHROMIUM-ICP	mg/l	JKM	1.02			*	0.004		Ø	*
COPPER-ICP	mg/1	JKM	1.02			0.972			0.007	*
IRON-ICP	mg/l	JKM	1.04			_			Ø.472	*
MAGNESIUM-ICP	mg/1	JKM	10						Ø	*
MANGANESE-ICP	mg/1	JKM	1.04			*	0.003		0.002	*
NICKEL-ICP	mg/1	JKM	1			*	-0.001		0.001	*
SILVER-ICP	mg/1	JKM	0.2			*	27.194		0.944	*
SODIUM-ICP	mg/1	JKM	10.1			*	0.024		0.003	*
ZINC-ICP	mg/1	JKM	1				_		5Ø	*
BOD	mg/1	SMC/DIH	200	197	237	Τρ./	מכו	040	3.0	

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DIV. of SOLID & HAZ. WASTE MGT.

UCLx = Upper Control Limit (Standard)
LCLx = Lower Control Limit (Standard)

UCLr = Upper Control Limit (Range)
\* = Initial Data Collection

## QUALITY ASSURANCE DAILY REPORT

Laboratory:

Ohio Valley

Date:

06/14/89

			METHOD BLA	ANK	MATRIX	K/MEDIA SI	SIKE		•
Parameter	Units	Analyst	Result	UCLb	Conc.	Recovery	Rec.(%)	UCLs(%)	LCLs(%)
IRON-ICP	mg/l	JKM	0.007	*	1.04	1.07	103	*	*
SULFATE	mg/l	WMVI	Ø	*	10	8.4	84	*	*
MERCURY-CV	mg/1	JKM	Ø	*	0.01	0.0101	101	*	*
TIN-FURNACE	mg/l	JKM	Ø	*	0.05	0.039	78	*	*
PHENOLICS	mg/1	DIH	0.001	*	0.5	0.486	97	*	*
ALUMINUM-ICP	mg/l	JKM	0.003	*	1	0.928	93	*	*
ANTIMONY-ICP	mg/l	JKM	0.021	*	1	Ø.859	86	*	*
BARIUM-ICP	mg/1	JKM	0.007	*	1.02	Ø.863	85	*	*
CALCIUM-ICP	mg/l	JKM	Ø.Ø23	*	10.1	8	79		*
CADCIUM-ICP	mg/l	JKM	0.002	*	1	Ø.85	85	*	*
CHROMIUM-ICP	mg/l	JKM	0.001	*	1.02	ø <b>.</b> 933	91	*	*
COPPER-ICP	mg/1	JKM	0.003	*	1.02	Ø.881	86	*	*
IRON-ICP	mg/l	JKM	0.006	*	1.04	0.907	87	*	*
MAGNESIUM-ICP	mg/l	JKM	Ø.Ø18	*	10	11.8	118	*	*
MANGANESE-ICP	mg/1	JKM	0.002	*	1.04	Ø.946	91	*	*
	mg/l	JKM	0.003	*	1		86	*	*
NICKEL-ICP	mg/l	JKM	-Ø.Ø01	*	Ø.2	Ø.157	79	*	*
SILVER-ICP		JKM	0.031	*	10.1			*	*
SODIUM-ICP	mg/l	JKM	Ø.007	*	1			*	*
ZINC-ICP BOD	mg/l mg/l	SMC/DIH		*	200			*	*

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DIV. of SOLID & HAZ. WASTE MGT.

UCLb = Upper Control Limit (Blank)

UCLs = Upper Control Limit (Spike Recovery)
LCLs = Lower Control Limit (Spike Recovery)
\* = Initial Data Collection

## QUALITY ASSURANCE DAILY REPORT

aboratory:

Ohio Valley

Date:

06/15/89

			REFERE	ENCE STA	ANDARD		DUPLICAT	TE SAMPLE		
Parameter	Units	Analyst	Known	Result	UCLx	LCLx	Resultl	Result2	Range	UCLr
COD	mg/l	DIH	64	68.2	76.8	51.2	520	580	60	*
TOC	mg/l	DIH	50	51.6	53.4	46.4	160	160	Ø	. *
CYANIDE	mg/1	DIH	Ø.2	Ø.176	0.213	Ø.14				*
CHROMIUM VI	mg/l	SMC	Ø.1	Ø.098	0.104	Ø.082	0.01	0.01	Ø	*
MERCURY-CV	mg/1	JKM	0.01	0.0114	0.013	0.007	Ø	Ø	Ø	*
BARIUM-ICP	mg/1	JKM	1.02	Ø.984	*	*	0.029	Ø.Ø28	0.001	*
	mg/1	JKM	1	Ø.957	*	*	0.001	Ø	0.001	*
CADMIUM-ICP	mg/1	JKM	1.02	1.02	*	*	0.012	0.012	Ø	*
CHROMIUM-ICP		JKM	Ø.2	0.175		*	0.001	Ø	0.001	*
SILVER-ICP	mg/l		10	7.9		8.4	. 8	8	Ø	*
OIL AND GREASE	mg/l	SMC	Ø.Ø51	· <del>-</del> -	*	*	6.0007	0.0008	0.0001	*
ARSENIC-VH	mg/l	JKM	- +		*	*		-0.0125	0.0025	*
LEAD-FLAME	mg/l	JKM	1.02				· _	_	0	*
AMMONIA	mg/l	WMN	10	9.91	10.7	9.2	i.	D		

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DIV. of SOLID & HAZ. WASTE MGT.

UCLx = Upper Control Limit (Standard)

LCLx = Lower Control Limit (Standard)
UCLr = Upper Control Limit (Range)

## QUALITY ASSURANCE DAILY REPORT

aboratory:

Ohio Valley

Date:

06/15/89

			METHOD BLA	NK	MATRI	x/MEDIA SI	PIKE		
Parameter	Units	Analyst	Result	UCLb	Conc.	Recovery	Rec.(%)	UCLs(%)	LCLs(%)
COD	mq/l	DIH	1	*	160	215	134	*	*
TOC	mg/1	DIH	0.08	*	25	18.1	72	*	*
CYANIDE	mg/l	DIH	0.001	*				*	*
CHROMIUM VI	mg/l	SMC	0.01	*	Ø.1	0.098	98	*	*
MERCURY-CV	mg/l	JKM	-0.0002	*	0.01	0.0113	113	*	*
BARIUM-ICP	mg/l	JKM	0.012	*	1.02	1.007	99	*	*
CADMIUM-ICP	mg/1	JKM	0.002	*	1	1.013	101	*	*
CHROMIUM-ICP	mg/l	JKM	Ø	*	1.02	1.084	106	*	*
SILVER-ICP	mg/1	JKM	-0.002	*	Ø.2	0.19	95	*	*
OIL AND CREASE	mg/1	SMC	1.6	*	10	. 7.7	77	. *	*
ARSENIC-VH	mg/1	JKM	0.00025	*	0.051	0.0493	97	*	*
LEAD-FLAME	mg/1	JKM	0.02	*	1.02	ø.96	94	* *	*
AMMONIA	mg/l	WMW	Ø	*	10	10.2	102	*	*

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DIV. of SOLID & HAZ. WASTE MGT.

UCLb = Upper Control Limit (Blank)

UCLs = Upper Control Limit (Spike Recovery) LCLs = Lower Control Limit (Spike Recovery)

### QUALITY ASSURANCE DAILY REPORT

06/19/89 Date: Ohio Valley Laboratory:

			REFERI	ENCE STA	ANDARD		DUPLICAT	TE SAMPLE		
Parameter	Units	Analyst	Known	Result	UCLx	LCLx	Resultl	Result2	Range 1	UCLr
PHOSPHORUS	mg/l	DIH	1	0.973	1.19	Ø.78	0.23	Ø.16	0.07	*
NITRATE	mg/l	DIH	Ø.25	Ø.248	Ø.293	Ø.2	2.9	3	Ø.1	*
TPH	mg/1	DHT	100	104	*	*	200	210	10	*
ALUMINUM-ICP	mg/l	JKM	1	1.02	1.34	0.983	Ø.461	Ø.45	0.011	*
ANTIMONY-ICP	mg/l	JKM	ī	1.05	1.137	0.909	0.04	0.007	0.033	*
BARIUM-ICP	mg/l	JKM	1.02	0.965	*	*	0.069	Ø.Ø74	0.005	*
BERYLLIUM-ICP	mg/1	JKM	1.26	1.26	*	*	Ø	Ø	Ø	*
CADMIUM-ICP	mg/l	JKM	1	0.959	*	. *	0.001	Ø	0.001	*
CHROMIUM-ICP	mg/1	JKM	1.02		*	*	0.005	Ø.ØØ5	Ø	*
COPPER-ICP	mg/l	JKM	1.02		*	*	Ø.172	Ø.186	Ø.Ø14	*
IRON-ICP	mg/1	JKM	1.04		1.24	0.972	1.042	0.918	0.124	*
MANGANESE-ICP	mg/l	JKM	1.04				0.048	0.043	Ø.Ø05	*
NICKEL-ICP	mg/l	JKM	1	Ø.98		*	Ø	-0.002	0.002	*
	mg/l	JKM	Ø.2			*	-0.004	Ø	0.004	*
SILVER-ICP	mg/l	JKM	10.1			*	32.25		1	*
SODIUM-ICP	mg/l	JKM	1	` Ø.857	*	*	Ø.825		Ø.117	*

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DIV. of SOLID & HAZ. WASTE MGT.

UCLx = Upper Control Limit (Standard)

LCLx = Lower Control Limit (Standard)
UCLr = Upper Control Limit (Range)
\* = Initial Data Collection

Page 2

## KEMRON Environmental Services

## QUALITY ASSURANCE DAILY REPORT

Laboratory:

Ohio Valley

Date:

06/19/89

			METHOD BL	ANK	MATRIX	K/MEDIA SI	PIKE		
Parameter	Units	Analyst	Result	UCLb	Conc.	Recovery	Rec.(%)	UCLs(%)	LCLs(%)
PHOSPHORUS	mg/l	DIH	0.02	*	0.5	0.434	87	*	*
NITRATE	mg/l	DIH	Ø.Ø26	*	0.25	0.229	92	*	*
rph	mg/l	DHT	Ø	*	50	45.5	91	*	*
ALUMINUM-ICP	mg/l	JKM	0.007	*	1	Ø.996	100	*	*
ANTIMONY-ICP	mg/l	JKM	-0.017	*	. 1	1.02	102	*	*
BARIUM-ICP	mg/l	JKM	0.005	*	1.02	ø.961	94	*	*
SERYLLIUM-ICP	mg/l	JKM	Ø	*	1.26	1.16	92	*	*
CADMIUM-ICP	mg/1	JKM	0.001	*	1	0.925	93	*	*
CHROMIUM-ICP	mg/l	JKM	0	*	1.02	1.027	101	*	*
COPPER-ICP	mg/l	JKM	0.003	*	1.02	0.971	95	*	*
	mg/l	JKM	0.003	*	1.04		87	*	*
IRON-ICP	mg/l	JKM	Ø.023	*	1.04		99	*	*
MANGANESE-ICP		JKM	-0.01	*	1	0.942	94	*	*
NICKEL-ICP	mg/l	JKM	0.001	*	0.2		82	*	*
SILVER-ICP	mg/l		Ø.052	*	10.1		96		*
SODIUM-ICP ZINC-ICP	mg/l mg/l	JKM JKM	0.004	*	1	0.828	83		*

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JUL 12 1989

DIV. of SOLID & HAZ. WASTE MGT.

UCLb = Upper Control Limit (Blank)

UCLs = Upper Control Limit (Spike Recovery)

LCLs = Lower Control Limit (Spike Recovery)
\* = Initial Data Collection

## QUALITY ASSURANCE DAILY REPORT

\_aboratory:

Ohio Valley

Date:

06/20/89

			REFERI	ENCE STA	ANDARD		DUPLICA'	re sample		·
Parameter	Units	Analyst	Known	Result	UCLx	LCLx	Resultl	Result2	Range U	JCLr
		DIH	0.2	0.192	0.213	0.14	0.01	0.01	Ø	*
CYANIDE	mg/l		1	Ø.966	*	*	0.003	0.001	0.002	*
CADMIUM-ICP	mg/l	JKM	1 62	1.03	*	*	0.014	0.013	0.001	*
CHROMIUM-ICP	mg/1	JKM	1.02		*	*	Ø.1		0.003	*
BARIUM-ICP	mg/1	JKM	1.02	1.01	_	*	0.017		0	*
SILVER-ICP	mg/l	JKM	Ø.2	Ø.178					0.008	*
LEAD-ICP	mq/1	JKM	1.02	1.03	*	*	0.025		-	*
LEAD-FURNACE	mg/1	JKM	0.051	0.047	*	*	0.03889		0.00189	
		SMC	50	55	59	43	26	28	2	*
TSS	mg/1	_	500			457	960	1000	40	*
TDS	mg/1	SMC		_					Ø	*
TOTAL SOLIDS	mq/1	SMC	500	506	527	4//	ששכ	200		

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DIV. of SOLID & HAZ. WASTE MGT.

UCLx = Upper Control Limit (Standard)

LCLx = Lower Control Limit (Standard)

UCLr = Upper Control Limit (Range)

Page 2

## QUALITY ASSURANCE DAILY REPORT

\_aboratory:

Ohio Valley

Date:

06/20/89

			METHOD BLA	NK	MATRIX	(/MEDIA SE			
Parameter	Units	Analyst	Result	UCLÞ	Conc.	Recovery	Rec.(%)	UCLs(%)	LCLs(%)
	m= /1	DIH	0.002	*	Ø.2	0.247	124	*	*
CYANIDE	mg/1	JKM	0.003	*	1	0.94	94	*	*
CADMIUM-ICP	mg/l		0.003	*	1.02	Ø.981	96	*	*
CHROMIUM-ICP	mg/l	JKM	=	*	1.02	0.958	94	*	×
BARIUM-ICP	mg/1	JKM	0.003	*	0.2	Ø.169	85	*	*
SILVER-ICP	mg/l	JKM	0	^ *	1.02	0.99	97	*	*
LEAD-ICP	mg/1	JKM	0.014			Ø.039	76	*	*
LEAD-FURNACE	mg/l	JKM	0.0005	*	0.051	= =	102	*	*
TSS	mg/l	SMC	-4	*	5Ø	51	_		*
TDS	mq/1	SMC	Ø	*	500				*
TOTAL SOLIDS	mg/1	SNC	110	*	500	516	103	*	*

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JUL 12 1989

DIV. of SOLID & HAZ. WASTE MGT.

UCLb = Upper Control Limit (Blank)

UCLs = Upper Control Limit (Spike Recovery)
LCLs = Lower Control Limit (Spike Recovery)
\* = Initial Data Collection

#### **OUALITY ASSURANCE DAILY REPORT**

Laboratory:

Ohio Valley

Date:

06/21/89

				.,,,						
			REFERE	ENCE STA	ANDARD		DUPLICA?	TE SAMPLE		
Parameter	Units	Analyst	Known	Result	UCLx	LCLx	Resultl	Result2	Range	UCLr
SELENIUM-VH	mg/l	JKM	0.05	0.0505	0.058	0.04	0.0001	0.0003	0.0002	*
BERYLLIUM-ICP	mg/l	JKM	1.26	1.24	*	*	0.001	0.001	Ø	*
SULFATE	mg/l	WMW	2Ø	22	25.3	16.2	74	70	4	*
CADMIUM-ICP	mg/l	JKM	1	Ø.965	*	*	0.001	0.001	Ø	*
ARSENIC-VH	mg/l	JKM		0.0477		*	0.0088	0.0103	0.0015	*
CHROMIUM-ICP	mg/l	JKM	1.02			*	Ø.Ø28	Ø.Ø25	0.003	*
	mg/1	JKM	1.02		*	*	0.053	Ø.Ø59	0.006	*
LEAD-ICP COPPER-ICP	mq/1	JKM	1.02		*	*	0.422	0.415	0.007	*
· ·	mg/1	JKM	1	1		0.909	0.009	-0.004	0.013	*
ANTIMONY-ICP	_	JKM	1.04	-		0.972		Ø.31	0.078	*
IRON-ICP	mg/1	DIH	Ø.5					_	Ø.5	*
PHENOLICS	mg/l	JKM	1	Ø.979	-	*	0.056	Ø.Ø52	0.004	*
NICKEL-ICP	mg/1	JKM	1	1.08		0.983	10.694	10.125	Ø.569	*
ALUMINUM-ICP	mg/1		ø.øs			*	-0.0022		0.00022	*
THALLIUM-FURNACE		JKM	1.02			*	Ø.127		0.009	*
=	mg/1	JKM	Ø.2			*	ດ		0.002	
SILVER-ICP	mg/1	JKM				*	Ø.469		0.024	
ZINC-ICP	mg/l	JKM	1				_		Ø	
BOD	mg/1	SMC	200	197	237	107	73	\3	D	

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JUL 12 1989

DIV. of SOLID & HAZ. WASTE MGT.

UCLx = Upper Control Limit (Standard) LCLx = Lower Control Limit (Standard)

UCLr = Upper Control Limit (Range)
\* = Initial Data Collection

Page 2

#### QUALITY ASSURANCE DAILY REPORT

Laboratory:

Ohio Valley

06/21/89 Date:

			METHOD BLA	7NK	MATRIX	(/MEDIA SI	PIKE		
Parameter	Units	Analyst	Result	UCLb	Conc.	Recovery	Rec.(%)	UCLs(%)	LCLs(%)
SELENIUM-VH	mq/l	JKM	-0.0001	*	0.05	0.0495	99	*	*
BERYLLIUM-ICP	mg/1	JKM	Ø	*	1.26	1.169	93	*	*
SULFATE	mq/1	WMJ	2	*	10	12.9	129	*	*
CADMIUM-ICP	mg/l	JKM	0.001	*	1	0.885	89	*	*
ARSENIC-VH	mg/1	JKM	0.0001	*	0.051	0.0513	101	*	*
CHROMIUM-ICP	mq/1	JKM	0.001	*	1.02	Ø.975	96	*	*
LEAD-ICP	mg/1	JKM	0.008	*	1.02	1.004	98	, <b>*</b>	*
COPPER-ICP	mg/1	JKM	0.001	*	1.02	ø <b>.</b> 99	97	*	*
ANTIMONY-ICP	mg/1	JKM	-0.004	*	1	Ø.923	92	*	*
	mg/1	JKM	-0.001	*	1.04	ø <b>.</b> 9	87	*	×
IRON-ICP		-	0.001	*	0.5	0.474	95	*	*
PHENOLICS	mg/1	DIH	-0.011	*	1	Ø.928			*
NICKEL-ICP	mg/l	JKM		*	1	0.916			*
ALUMINUM-ICP	mg/l	JKM	Ø.023 Ø	*	0.05				*
THALLIUM-FURNACE	-	JKM		*	1.02				*
BARIUM-ICP	mg/l	JKM	0.004						*
SILVER-ICP	mg/1	JKM	-0.003	*	0.2				*
ZINC-ICP	mg/1	JKM	0.006	*	1	Ø.75			*
BOD	mg/1	SMC	Ø.4	*	200	189	95	^	•

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JUL 12 1989

DIV. of SOLID & HAZ. WASTE MGT.

UCLb = Upper Control Limit (Blank)
UCLs = Upper Control Limit (Spike Recovery)

LCLs = Lower Control Limit (Spike Recovery)

## QUALITY ASSURANCE DAILY REPORT

Laboratory:

Ohio Valley

Date: Ø6/22/89

			REFERI	ENCE STA	ANDARD		DUPLICAT	TE SAMPLE		
Parameter	Units	Analyst	Known	Result	UCLx	LCLx	Resultl	Result2	Range U	CLr
DROMIDE	mg/l	DIH	40	41.5	*	*	1	1	Ø	*
BROMIDE	mg/l	DIH	50	46.1	53.4	46.4	16	15	1	*
TOC COD	mg/l	DIH	64	57.1		51.2	1	1	Ø	*
FLUOR IDE	mg/l	DIH	2	2.03	2.25	1.88	Ø.3	Ø.3	Ø	*
AMMONIA	mg/1	WMW	10	9.9	10.7	9.2	1	1	Ø	*
MERCURY-CV	mg/l	JKM	0.01		0.013	0.007	0.0002	0.0002	Ø	*
ALUMINUM-ICP	mq/1	JKM	1	1.01	1.34	0.983	5.82	6.04	Ø.22	*
BARIUM-ICP	mg/l	JKM	1.02	Ø.971	*	*	Ø.138	Ø.138	Ø	*
BERYLLIUM-ICP	mg/l	JKM	1.26	1.24	*	*	Ø	0.006	0.006	*
CALCIUM-ICP	mg/1	JKM	10.1	9.99	10.7	9.71	63.8		2.4	*
CADMIUM-ICP	mg/1	JKM	1	Ø.938	*	*	Ø	0.006	0.006	*
CHROMIUM-ICP	mg/l	JKM	1.02	1	*	*	0.014	0.014	Ø	*
COPPER-ICP	mg/l	JKM	1.02		*	*	0.474	Ø.458	Ø.016	*
IRON-ICP	mg/l	JKM	1.04		1.24	0.972	14.3	14.2	0.1	*
MAGNESIUM-ICP	mg/l	JKM	10		. 11	9.93	15.56	14.82	0.74	*
NICKEL-ICP	mg/l	JKM.	1	Ø.971	*	*	0.0064	0.0066	0.0002	,*
SODIUM-ICP	mg/l	JKM	10.1			*	37.4	36.8	Ø.6	*
ZINC-ICP	mg/l	JKM	1		*	*	0.61	Ø <b>.</b> 544	0.066	*
TPH	mg/l	MM	100			. *	4000	3300	700	*
OIL AND GREASE	mg/1	SMC	10			8.4	8.1	8.9	0.8	*

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JUL 12 1989

DIV. of SOLID & HAZ. WASTE MGT.

UCLx = Upper Control Limit (Standard)

LCLx = Lower Control Limit (Standard)

UCLr = Upper Control Limit (Range)
\* = Initial Data Collection

### QUALITY ASSURANCE DAILY REPORT

Laboratory:

Ohio Valley

Date:	06/22/89
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			METHOD BL	ANK	MATRI)				
Parameter	Units	Analyst	Result	UCLb	Conc.	Recovery	Rec.(%)	UCLs(%)	LCLs(%)
BROMIDE	mg/l	DIH	1	*	16	17.6	110	*	*
TOC	mg/l	DIH	0.2	*	25	18.3	73	*	*
COD	mg/1	DIH	1	*	- 32	27.1	85	*	*
FLUORIDE	mg/l	DIH	0.05	*	Ø.4	Ø.4	100	*	*
AMMONIA	mg/1	WMW	Ø	*	10	10	100	*	*
MERCURY-CV	mg/1	JKM	Ø	*	0.01	Ø.Ø097	97	*	*
ALUMINUM-ICP	mg/l	JKM	-0.009	*	1	0.93	93	*	*
BARIUM-ICP	mg/l	JKM	0.006	*	1.02	Ø.991	97	*	, <b>*</b>
BERYLLIUM-ICP	mg/1	JKM	Ø	*	1.26	1.34	106	*	*
CALCIUM-ICP	mg/1	JKM	0.008	*	10.1	8.9	88	*	*
CADMIUM-ICP	mg/1	JKM	0.001	*	1	1.04	104	*	*
CHROMIUM-ICP	mg/l	JKM	-0.001	*	1.02	1.083	106	*	*
COPPER-ICP	mg/l	JKM	0.002	*	1.02	1.003	98	*	*
IRON-ICP	mg/l	JKM	Ø.001	*	1.04	1.03	99	*	*
MAGNESIUM-ICP				*	10	10.22	102	*	*
NICKEL-ICP	mg/l	JKM	-0.001	*	1	1.057	106	*	*
SODIUM-ICP	mg/l	JKM	Ø.024	*	10.1	10.1	100	*	*
ZINC-ICP	mg/l	JKM	0.004	*	1	Ø.875	88	*	*
TPH	mg/l	WMW	0	*	25	19.5	78	*	*
OIL AND GREASE	mg/1	SMC	Ø.3	*	10		81	*	*

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DIV. of SOLID & HAZ. WASTE MGT.

UCLb = Upper Control Limit (Blank)

UCLs = Upper Control Limit (Spike Recovery)

LCLs = Lower Control Limit (Spike Recovery)

CYANIDE

#### MEMRON Unvironmental Services

## QUALITY ASSURANCE DAILY REPORT

Daté: 47/06/89 Ohio Valley Laboratory: MATRIX/MEDIA SPIKE HETROD BLACK UCLb Conc. Recovery Rec. (%) UCLs (%) LCLs (%) Units Analyst Result Parameter 5 101 5.85 0.013 HOLYBDENUM-ICP mo/1JKM 5 4.59 92  ${
m mg/1}$ JKM 3.398 TITANIUM-ICP 94 -0.003 1 9.94 JKN: mq/1ALUMINUM-ICP 0.976 1. 98 3.306 JKN mg/1BARIUM-ICP . 8.1 86 10.1 -0.003CALCIUM-ICP na/l-JKM 99 0.993 1 mg/1JKL D.002 CADMIUN-ICP 102 1.045 0.001 1.62 mg/1TUIL CHROMIUM-ICP 37 -8.811 1.04 13.9 JKH mq/1IRON-ICP 10 9.3 93 -0.619 JKH MACRESIUM-1CP mg/185 ઇ.ઇઠ 1.04 0.031 JKM. MANGANESE-ICP mg/l 8.3 82 10.1 0.015 mg/1JKH SCDIUM-ICP 1 0.852 85 0.002 ZINC-ICP mg/l JKH 500 524 105 16  $\pi G/1$ SHC TOTAL SCLIDS 515 103 5ขย -2TDS ng/1SMC 110 -4 56 55 JKH TSS mq/194 Too. w 0.20.188 mg/1 5346

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DIV. of SOLID & HAZ. WASTEMGT.

UCLb = Upper Control Limit (Blank)

UCLs = Upper Control Limit (Spike Recovery)

LCLs = Lower Control Limit (Spike Recovery)

#### QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley Date: 07/06/89

			E) 7173 (11) (1	aliati agi	110300		DE107 7/13/	1177		
			REFERI	ENCE ST	ANDARD		DUPLICA'.	LE SAMPLE		
Parameter	Units	Analyst	Known	Result	UCLx	LCLx	Resultl	Result2	kange	UCLr
MOLYBDENUM-ICP	п9/1	JKI1	1	1.81	*	*	и.092	0.096	0.004	*
TITANIUM-ICP	mg/1	JKM	5	4.76	*	*	0.14	0.145	0.0J5	*
ALUMINUM-ICP	$m_{\rm S}/1$	JKM	1	1.1	1.307	0.881	0.012	0.007	0.005	*
BARIUM-ICP	$m_3/1$	JKM	1.02	1	1.196	0.908	Ø	0.001	0.001	*
CALCIUM-ICP	mg/1	JKN	10.1	10.2	10.759	9.595	317.5	325	7.5	*
CADMIUM-ICP	mg/1	JKM	1	0.983	0.993	0.921	Ø	Ø	Ø	*
CHROMIUM-ICP	mg/1	JKM	1.32	1.04	1.067	0.977	$\mathcal{O}$	0.001	0.001	*
IRON-ICP	mg/1	JKM	1.04	1	1.134	0.96	0.004	0.011	0.007	*
MAGNESIUM-ICP	mg/1	JKM	16	10.1	11.114	9.752	134.25	135	0.75	*
MANGANESE-ICP	mg/1	JKM	1.04	1.06	1.033	1.023	0.001	0	0.631	*
SODIUM-ICP	mg/l	JKN	10.1	10	· *	*	0.037	0.04	0.003	· *
ZINC-ICP	mg/1	JKM	1	0.874	*	*	0.003	Ø.006	ខ. ២២3	*
TOTAL SOLIDS	mg/1	SMC	500	5ø6	527	477	488	494	6	*
TDS	mg/1	SMC	500	488	543	457	366	420	54	*
TSS	mg/l	JKM	50	55	59	43	3	<1	3	*
CYANIDE	mg/1	UMU	Ø.2	0.151	0.213	0.14	0.01	0.01	Ø	*

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DIV. of SOLID & HAZ. WASTE MGT.

UCLx = Upper Control Limit (Standard)
LCLx = Lower Control Limit (Standard)
UCLr = Upper Control Limit (Range)
\* = Initial Data Collection

#### CUALITY ASSURANCE DAILY REPORT

Ohio Valley 07/06/89 Laboratory: Date:

			REFERI	ENCE ST	ANDARD		DUPLICA'	PE SAMPLE		
Parameter	Units	Analyst	Known	Result	UCLx	LCLx	Resultl	Result2	kange i	UCLr
NOLYBDENUM-ICP	и9/1	JKi1	1	1.61	*	*	0.092	ø <b>.</b> ₫96	ปี เม่ย4	*
TITANIUM-ICP	mg/1	JET1	5	4.76	*	*	0.14	0.145	შ.რთ5	*
ALUMINUM-ICP	mg/1	JKM1	1	1.1	1.307	6.881	3.012	u.007	0.555	*
BARIUM-ICP	mg/1	JKN	1.92	1	1.106	0.908	ð	$\mathfrak{s.091}$	0.001	*
CALCIUM-ICP	mg/1	JKN	10.1	10.2	10.759	9.595	317.5	325	7.5	×
CADMIUM-ICP	mg/1	JKM	. 1	0.983	0.993	0.921	Ø	ຍ	0	*
CHROMIUM-ICP	mg/1	JKM	1.32	1.04	1.067	0.977	G	J.091	0.301	*
IRON-ICP	mg/l	JKM	1.04	1	1.134	0.96	0.004	0.011	J.007	*
MAGNESIUM-ICP	mg/1	JKM	16	10.1	11.114	9.752	134.25	135	Ø.75	*
MANGANESE-ICP	mg/1	JKN	1.94	1.96	1.333	1.523	0.601	Ø	3.091	*
SODIUM-ICP	mg/1	JKN	10.1	10	K	*	0.037	0.94	0.003	*
ZINC-ICP	mg/1	JKM	1	0.874	*	*	ğ.003	J.996	0.003	*
TOTAL SOLIDS	mg/1	SMC	539	506	527	477	488	494	ő	*
TDS	mg/1	SNC	500.	<b>488</b>	543	457	366	420	54	*
TSS	mg/1	JKM	50	<sup>`</sup> 55	59	43	3	<1	3	*
CYANIDE	mg/1	UMI	Ø.2	0.151	0.213	0.14	0.01	0.01	(i	*

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JUL 12 1989

DIV. of SOLID & HAZ. WASTEMGT.

UCLx = Upper Control Limit (Standard)

LCLx = Lower Control Limit (Standard)
UCLr = Upper Control Limit (Range)
\* = Initial Data Collection

## REDRON Environmental Services QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley Date: 07/06/89

			PEFER	ENCE ST	ANDARD		DUPLICA	LE SAMPLE		
Parameter	Units	Analyst	Known	Result	UCLx	LCLx	Resultl	Result2	kange U	CLr
MOLYBDENUM-ICP	มด/1	JKi1	1	1.61	.*	*	0.092	ø.ø96	0.844	*
TITANIUM-ICP	mg/l	JEH	5	4.76	*	*	0.14	0.145	J.035	*
ALUMINUM-ICP	mg/1	JKM	1	1.1	1.307	0.881	3.012	0.007	0.205	≭
BARIUM-ICP	mg/1	JKN	1.02	1	1.136	0.908	Э	0.001	0.001	*
CALCIUM-ICP	mg/1	JKN	10.1	10.2	10.759	9.595	317.5	325	7.5	· <b>x</b>
CADMIUM-ICP	mg/1	JKM	. 1	0.983	0.993	0.921	. ()	9	Ø	*
CHROMIUM-ICP	mg/1	JKM	1.32	1.04	1.057	0.977	. 0	ស.៙៙1	.0.301	*
IRON-ICP	mg/l	JKM	1.04	1	1.134	₫.96	B.004	0.011	0.087	*
MAGNESIUM-ICP	mg/1	JKM	16	10.1	11.114	9.752	134.25	135	Ø.75	ж
MANCANESE-ICP	mg/1	JKH	1.04	1.96	1.333	1.023	0.001	Ø	0.001	*
SODIUM-ICP	mg/l	JKN	10.1	10	*	*	0.037	0.94	0.003	*
ZINC-ICP	mg/1	JKM	1	0.874	*	*	0.003	J.936	6.003	*
TOTAL SOLIDS	mg/1	SMC	599	5ø6	527	477	488	494	Θ	*
TDS	mg/l	SMC	500	<b>488</b>	543	457	366	420	54	*
TSS	mg/1	JKM	50	` 55	59	43	3	<1	3	*
CYANIDE	mq/l	UMALI	0.2	0.151	0.213	0.14	0.01	0.01	()	*

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JUL 12 1989

DIV. of SOLID & HAZ. WASTE MGT.

UCLx = Upper Control Limit (Standard)

LCLx = Lower Control Limit (Standard)
UCLr = Upper Control Limit (Range)
\* = Initial Data Collection

Page 2

KEMRON Environmental Services

## QUALITY ASSURANCE DAILY REPORT

Laboratory:

Ohio Valley

Date:

06/27/89

			METHOD BLA	ANK	MATRIX	K/MEDIA SI			
Parameter	Units	Analyst	Result	UCLb	Conc.	Recovery	Rec.(%)	UCLs(%)	LCLs(%)
MOLYBDENUM-ICP	mg/l	JKM	0.012	*	1	1.008	101	*	*
LEAD-FURNACE	mg/l	RSL	0.002	*	0.051	€.042	82	*	*
CYANIDE	mg/l	DIH	0.001	*	Ø.2	0.159	80	*	*
TIN-FURNACE	mg/1	JKM	Ø	*	0.05	0.054	108	*	*
ALUMINUM-ICP	mg/1	JKM	-0.005	*	1	1	100	*	*
ANTIMONY-ICP	mq/l	JKM	Ø.011	*	1	0.904	90	*	*
ANTIMONI-ICP BARIUM-ICP	mg/1	JKM	-0.004	*	1.02	0.865	85	*	*
BERYLLIUM-ICP	mg/l	JKI1	Ø	*	1.26	1.21	96	*	*
CADMIUM-ICP	mg/1	JKM	0.601	*	1	0.922	92	*	*
CHROMIUM-ICP	mg/l	JKM		*	1.02	Ø.971	95	*	*
	mg/1	JKM	o Ø	*	1.02	0.906	89	*	* '
COPPER-ICP	mg/l	JKM	-0.001	*	1.04		97	*	*
IRON-ICP	mg/l	JKM	-0.007	*	1	0.961	96	*	*
NICKEL-ICP	mg/l	JKM	-0.001	*	0.2	0.179	9¢	*	*
SILVER-ICP		JKM1	0.004	*	1	0.849	85	*	*
ZINC-ICP	mg/l	SMC	-4	*	5ø	52	104	*	*
TSS TDS	mg/l mg/l	SMC	2	* .	500			*	*

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DIV. of SOLID & HAZ. WASTE MGT.

UCLb = Upper Control Limit (Blank)

UCLs = Upper Control Limit (Spike Recovery)

LCLs = Lower Control Limit (Spike Recovery)

<sup>\* =</sup> Initial Data Collection

## QUALITY ASSURANCE DAILY REPORT

Laboratory:	Ohio Valley						Date: 0	6/26/89	
		REFER:	ENCE ST	ANDARD		DUPLICAT	TE SAMPLE		
Parameter	Units Analy	st Known	Result	UCLx	LCLx	Resultl	Result2	Range U	CLr
HARDNESS	mg/l SMC	100	101	102	98.7	680	690	16	*

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DIV. of SOLID & HAZ. WASTE MGT.

UCLr = Upper Control Limit (Range)

Page 2

## KEMRON Environmental Services

## QUALITY ASSURANCE DAILY REPORT

Ø6/26/89 Date: Ohio Valley Laboratory: MATRIX/MEDIA SPIKE METHOD BLANK UCLb Conc. Recovery Rec.(%) UCLs(%) LCLs(%) Units Analyst Result Parameter 50 49 mg/l SMC HARDNESS

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DIV. of SOLID & HAZ. WASTE MGT.

UCLb = Upper Control Limit (Blank)

UCLs = Upper Control Limit (Spike Recovery)
LCLs = Lower Control Limit (Spike Recovery)

## QUALITY ASSURANCE DAILY REPORT

Laboratory:

Ohio Valley

Date: 06/22/89

			REFERI	ENCE STA	ANDARD		DUPLICAT	TE SAMPLE		
Parameter	Units	Analyst	Known	Result	UCLx	LCLx	Resultl	Result2	Range U	CLr
BROMIDE	mg/l	DIH	40	41.5	*	*	1	1	Ø	*
TOC	mg/l	DIH	5Ø	46.1	53.4	46.4	16	15	1	*
COD	mg/1	DIH	64	57.1	76.8	51.2	1	1	Ø	*
FLUORIDE	mg/l	DIH	2	2.03	2.25	1.88	Ø.3	0.3	Ø	*
AMMONIA	mg/l	WMW	10	9.9	10.7	9.2	1	1	Ø	*
MERCURY-CV	mg/l	JKM	Ø.Ø1	Ø.Ø1Ø7	0.013	0.007	0.0002	0.0002	Ø	*
ALUMINUM-ICP	mg/1	JKM	1	1.01	1.34	0.983	5.82	6.04	Ø.22	×
BARIUM-ICP	mg/1	JKM	1.02	Ø.971	*	*	Ø.138		Ø	*
BERYLLIUM-ICP	mg/1	JKM	1.26	1.24	*	*	Ø	0.006	0.006	*
CALCIUM-ICP	mg/1	JKM	10.1	9.99	10.7	9.71	63.8		2.4	*
CADMIUM-ICP	mg/1	JKM	.,1	0.938	*	*	0	0.006	0.006	*
CHROMIUM-ICP	mg/l	JKM	1.02	, 1	×	*	0.014		Ø	*
COPPER-ICP	mg/l	JKM	1.02	1	*	*	Ø.474	Ø.458	0.016	*
IRON-ICP	mg/l	JKM	1.04	1.01	1.24	0.972	14.3	14.2	0.1	*
MAGNESIUM-ICP	mg/l	JKM	10	10.3	11	9.93	15.56	14.82	0.74	*
NICKEL-ICP	mg/l	JKM	1	0.971	*	*	0.0064		0.0002	*
SODIUM-ICP	mg/1	JKM	10.1	10	*	*	37.4	36.8	Ø.6	4
ZINC-ICP	mg/l	JKM	1		*	*	0.61	0.544	0.066	ŧ
TPH	mg/1	WMW	100			*	4000	3300	700	4
OIL AND GREASE	mg/l	SMC	10			8.4	8.1	8.9	Ø.8	4

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JUL 26 1989

DIV. of SOLID & HAZ. WASTE MGT.

UCLx = Upper Control Limit (Standard) LCLx = Lower Control Limit (Standard)

UCLr = Upper Control Limit (Range)
\* = Initial Data Collection

Page 2

## QUALITY ASSURANCE DAILY REPORT

Laboratory:

Ohio Valley

Date:

06/22/89

			METHOD BLA	ANK	MATRIX	K/MEDIA SE			
Parameter	Units	Analyst	Result	UCLb	Conc.	Recovery	Rec.(%)	UCLs(%)	LCLs(%)
BROMIDE	mg/l	DIH	ī	*	16	17.6	110	*	*
roc	mg/1	DIH	Ø.2	*	25	18.3	73	*	*
COD	mg/1	DIH	1	*	32	27.1	85	*	*
FLUORIDE	mg/1	DIH	0.05	*	Ø.4	Ø.4	100	*	*
AMMONIA	mg/1	WMW	Ø	*	10	10	100	*	*
MERCURY-CV	mg/1	JKM	Ø	*	0.01	0.0097	97	*	*
ALUMINUM-ICP	mg/1	JKM	-0.009	*	. 1	ø.93		*	*
BARIUM-ICP	mg/l	JKM	0.006	*	1.02	Ø.991	97	*	*
BERYLLIUM-ICP	mg/l	JKM	Ø	*	1.26	1.34		*	*
CALCIUM-ICP	mg/l	JKM	0.008	*	10.1	8.9	88	*	*
CADMIUM-ICP	mg/l	JKM	0.001	*	1	1.04	104	*	*
CHROMIUM-ICP	mg/l	JKM	-0.001	*	1.02	1.083	106	*	*
COPPER-ICP	mg/l	JKM	0.002	*	1.02	1.003	98	*	*
IRON-ICP	mg/l	JKM	0.001	*	1.04	1.03	99	*	*
MAGNESIUM-ICP	mg/1	JKM	0.033	*	10	10.22	102	*	*
NICKEL-ICP	mg/l	JKM	-0.001	*	1	1.057	106	*	*
SODIUM-ICP	mg/1	JKM	0.024	*	10.1	10.1			*
ZINC-ICP	mg/1	JKM	0.004	*	1	Ø.875	88	*	*
TPH	mg/l	WMW	Ø	*	25	19.5	78	*	*
OIL AND GREASE	mg/l	SMC	Ø.3	*	10	8.1	. 81	*	*

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JUL 26 1989

DIV. of SOLID & HAZ. WASTE MGT.

UCLb = Upper Control Limit (Blank)

UCLs = Upper Control Limit (Spike Recovery)

LCLs = Lower Control Limit (Spike Recovery)

## QUALITY ASSURANCE DAILY REPORT

Laboratory:

Ohio Valley

Date:

06/21/89

		w							,	<del></del>
			REFERI	ENCE STA	ANDARD		DUPLICAT	TE SAMPLE		
Parameter	Units	Analyst	Known	Result	UCLx	LCLx	Resultl	Result2	Range	UCLr
SELENIUM-VH	mg/1	JKM	0.05	0.0505	Ø.Ø58	0.04	0.0001	0.0003	0.0002	*
BERYLLIUM-ICP	mg/1	JKM	1.26	1.24	*	*	0.001	0.001	Ø	*
SULFATE	mg/1	WMW	2Ø	22	25.3	16.2	74	7Ø	4	*
CADMIUM-ICP	mg/1	JKM	1	0.965	*	*	0.001	0.001	Ø	*
ARSENIC-VH	mq/1	JKM	Ø.051	0.0477		*	0.0088	0.0103	0.0015	*
CHROMIUM-ICP	mg/1	JKM	1.02	1.04		*	Ø.Ø28	Ø.Ø25	0.003	×
LEAD-ICP	mg/1	JKM	1.02		*	*	Ø.Ø53	0.059	0.006	*
COPPER-ICP	mg/1	JKM	1.02		*	*	0.422	0.415	0.007	*
ANTIMONY-ICP	mg/1	JKM	1	1		0.909	0.009	-0.004	0.013	*
•	mg/1	JKM	1.04			0.972		0.31	0.078	*
IRON-ICP	mq/1	DIH	Ø.5					_	Ø.5	*
PHENOLICS	-	JKM	1		-	*	0.056		0.004	*
NICKEL-ICP	mg/1	JKM	ī	1.08		0.983			Ø.569	*
ALUMINUM-ICP	mg/1		Ø.Ø5			*	-0.0022		0.00022	
THALLIUM-FURNACE		JKM	1.02	_		*	Ø.127		0.009	
BARIUM-ICP	mg/1	JKM				*	Ø		Ø.602	
SILVER-ICP	mg/1	JKM	Ø.2			*	Ø.469	_	0.024	
ZINC-ICP	mg/l	JKM	1				_		Ø	
BOD	mg/1	SMC	200	197	237	167	(3	(3	b	

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DIV. of SOLID & HAZ. WASTE MGT.

UCLx = Upper Control Limit (Standard) LCLx = Lower Control Limit (Standard)

UCLr = Upper Control Limit (Range)
\* = Initial Data Collection

Page 2

## QUALITY ASSURANCE DAILY REPORT

Laboratory:

Ohio Valley

Date: 06/21/89

				g							
			METHOD BLA	ANK	MATRIX/MEDIA SPIKE						
Parameter	Units	Analyst	Result	UCLb	Conc.	Recovery	Rec.(%)	UCLs(%)	LCLs(%)		
SELENIUM-VH	mg/l	JKI1	-0.0001	*	Ø.Ø5	0.0495	99	*	*		
BERYLLIUM-ICP	mg/1	JKM	Ø	*	1.26	1.169	93	*	*		
SULFATE	mg/1	WM	2	*	10	12.9	129	*	*		
CADMIUM-ICP	mg/1	JKM	0.001	*	1	Ø.885	89	*	*		
ARSENIC-VH	mg/1	JKM	0.0001	*	0.051	0.0513	101	*	*		
CHROMIUM-ICP	mg/1	JKM	0.001	*	1.02	0.975	96	*	*		
	mg/1	JKM	Ø.ØØ8	*	1.02	1.004	98	*	*		
	mg/1	JKM	0.001	*	1.02		97	*	*		
COPPER-ICP		JKM	-0.004	*	1	Ø.923	92	*	*		
ANTIMONY-ICP	mg/l	JKM	-0.001	*	1.04		87	*	*		
IRON-ICP	mg/1		0.001	*	0.5		95	*	*		
PHENOLICS	mg/1	DIH	-Ø.Ø11	*	1	Ø <b>.</b> 928			*		
NICKEL-ICP	mg/l	JKM	Ø.023	*	ī	0.916			*		
ALUMINUM-ICP	mg/l	JKM	พ.ช23 Ø	*	0.05				*		
THALLIUM-FURNACE		JKM	_	*	1.02				*		
BARIUM-ICP	mg/1	JKM	0.004	*	Ø.2				*		
SILVER-ICP	mg/1	JKM	-0.003	*	0.2	Ø.103 Ø.75			*		
ZINC-ICP BOD	mg/l mg/l	JKM SMC	0.006 0.4	*	200				*		

RECEIVED OHIO EPA

JUL 26 1989

DIV. of SOLID & HAZ. WASTE MGT.

UCLb = Upper Control Limit (Blank)

UCLs = Upper Control Limit (Spike Recovery)

LCLs = Lower Control Limit (Spike Recovery)

## QUALITY ASSURANCE DAILY REPORT

Laboratory:

Ohio Valley

Dat	e:	¥

06/27/89

REFERENCE STANDARD DUPLICATE SAMPLE										
Parameter	Units	Analyst	Known	Result	UCLx	LCLx	Resultl	Result2	Range (	UCLr
MOLYBDENUM-ICP	mg/l	JKM	5	5.05	*	*	0.022	0.001	0.021	*
LEAD-FURNACE	mg/1	RSL	0.051	0.055	*	*	0.00444	0.002	0.00244	*
CYANIDE	mg/l	DIH	0.2	0.184	0.213	0.14	0.01	0.01	Ø	*
TIN-FURNACE	mg/1	JKM	Ø.Ø5	Ø.Ø55	*	*	Ø	Ø	Ø	*
ALUMINUM-ICP	mg/l	JKM	1	1.02	1.34	0.983	Ø.01	0.009	0.001	*
ANTIMONY-ICP	mg/1	JKM	1	0.978	1.137	0.909	-0.001	-0.002	0.001	*
BARIUM-ICP	mg/1	JKM	1.02	Ø.962	*	*	0.048	0.047	0.001	*
BERYLLIUM-ICP	mg/l	JKM	1.26	1.25	. <b>*</b>	*	Ø	Ø	Ø	±
CADMIUM-ICP	mg/l	JKM	1	0.972	*	*	Ø	Ø	Ø	*
CHROMIUM-ICP	mg/l	JKM	1.02	1.03	*	*	0.002	0.002	Ø	*
COPPER-ICP	mg/1	JKM	1.02	0.995	*	*	0.004	0.002	0.002	¥
IRON-ICP	mg/l	JKM	1.04	1.04	1.24	0.972	0.024	0.02	0.004	*
NICKEL-ICP	mq/1	JKM	1	0.999	*	*	0.028	0.026	0.002	*
SILVER-ICP	mg/l	JKM	0.2	0.175	*	*	0.001	-0.005	ø.006	*
ZINC-ICP	mo/1	JKM	. 1	0.885	*	*	C.017	0.013	0.004	*
TSS	mg/l	SMC	50	56	59	43	5	5	Ø	*
TDS	mg/1	SMC	500	502	543	457	360	370	10	*

RECEIVED OHIO EPA

JUL 2 6 1989

DIV. of SOLID & HAZ. WASTEMGT.

UCLx = Upper Control Limit (Standard)

LCLx = Lower Control Limit (Standard)
UCLr = Upper Control Limit (Range)
\* = Initial Data Collection

Date and Time of Inspection

## RCRA INTERIM STATUS INSPECTION FORM

		HWFAD #
GENERAL INFORMATION	a a	U.S. EPA I.D. # 0110017 497547
Facility: The ocean Steel Four	NORIES Address: LAKE PARK BLUD. HT HEAD	CITY: SERRING TWP.
State: <u>0410</u> 21		Telephone:
(Name)	INSPECTION PARTICIPANT(S)  (TITLE)  (A)DRUS ENGINEER  (MOR. QUARTY AND ENGINEER	(Telephone) (7/6) 823-6/50
3.	INSPECTOR(S)  ENVIRONMENTAL SCIENTIN	
2	INSTALLATION ACTIVITY  If the site is a TSDF, check the boxes indicat	ing which areas were reviewed.
Generator only (G)  Transporter (T)  TSDF only  G-T	General Facility Standards, Preparedness and Prevention, Contingency and Emergence Manifests/Records/Reporting, Closure  Containers SO1  Tanks SO2/TO1	/_/ Waste Piles SO3
	<pre>/_/ Surface Impoundments S04/T02 /_/ Incineration/Thermal Treatment</pre>	Groundwater Monitoring Post-Closure

# RCRA INTERIM STATUS INSPECTION FORM

- 1. Has the facility submitted a Part A to Ohio?
- 2. If "yes", is it complete and accurate?
- 3. Has the facility submitted a Part B?
- 4. Was advance notice of the inspection given? If so, how far in advance?

  IF THE SITE HAS RECEIVED A PART B PERMIT, USE THE RCRA STATUS INSPECTION FORM.

REMARKS, GENERAL INFORMATION

Include a brief description of site activity and waste handling.

# 1 - PART A SUBMITTED IN NOV. 1980 FOR LANDERCE
DISPOSAL OF DOOL WASTE.

IN JUNE 1982, HOF REBUESTS USEPH WITHDRAW PART H APPLICATION BASED ON THEIR TESTING OF WASTE STREAM, USEPH ACKNOWLEDGES REGUEST IN APRIL 1983 BASED ON INFORMATION JUBINITIED AT THAT TIME, JUBSLOWENT SAMPLING BY U.S.EPH

CONFIRMS DISPUSAL OF HAZARDOWS WASTES

AT THIS EACICITY INFORMATION - 2

Rev1sed 12/84

N/A

~ 1 WKS

## RCRA INTERIM STATUS INSPECTION FORM

40	CFR 265 (UAC 3745-65-et seq.) GENERAL INTERIM STATUS REQUIREMENTS AND TSD REQUIREME	NTS	<del></del>		
***************************************		<u>Yes</u>	<u> Ho</u>	N/V	Remark #
	Subpart B: General Facility Standards				
1.	The operator has a detailed chemical and physical analysis of the waste material containing all of the information which must be known to properly treat or store the waste as required by Section 265.13(a) [3745-65-13(A)(1)]	1	<del>رسنيس</del>		· · · · · · · · · · · · · · · · · · ·
2.	The operator has a written waste analysis plan which describes analytical parameters, test methods, sampling methods, testing frequency and responses to any process changes that may affect the character of the waste. (Section 265.13(b)) [3745-65-13(B)]		<u>√</u>	· · · · · · · · · · · · · · · · · · ·	#1
3.	a) Would physical contact with the waste structures or equipment injure unknowing/unauthorized persons or livestock entering the facility? (265.14(a)(1)) [3745-65-14(A)(1)]	<u> </u>			-
	b) Would disturbance of the waste cause a violation of the hazardous waste regulations? (265.14(a)(2)) $[3745-65-14(\Lambda)(2)]$	<u> </u>			
	IF <u>BOTH</u> 3a AND 3b ARE "NO", MARK QUESTIONS 4 AND 5 "NOT APPLICABLE".				
4.	The facility has -		•		
	a) A 24-hour surveillance system, or			, <del></del>	<del></del>
	b) An artificial or natural barrier and a means to control entry at all times (265.14(b)(2)). [3745-65-14(B)(2)(a and b)]	<u></u>	<u>~</u>	<u> </u>	#2
5.	The facility has a sign "Danger-Unauthorized Personnel Keep Out" at each entrance to the active portion of the facility and at other locations as necessary. (265-14(c)) [3745-65-14(C)]		<u>~</u>	/	Co.
	and the second of the second o			•	
	#1 - NO WASTE ANALYSIS PLAN DEVELEPED				. •
•	THE - ACCESSIBLE FROM WEST, SOUTH SOUTHERST HEACOU		PA.		
	GENERAL FACILITY STANDARDS - 1		٠,	Revi	sed la. A

		<u>Yes</u>	lto	<u>N/A</u>	Remark #
6.	a) The operator has developed and followed a comprehensive, written inspection plan and documented the inspections, malfunctions and any remedial actions taken in an operating record log which is kept for at least three years.  (265.15) [3745-65-15]		$\checkmark$	<i>_</i>	#3
	b) Areas subject to spills (i.e., loading and unloading areas, container storage areas, etc.) are inspected daily when in use and according to other applicable regulations when not actively in use. (265.15(b)(4)) [3745-65-15(B)(4)]			_	
7.	The facility has provided a Personnel Training Program in compliance with Section 265.16(a)(b)(c) including instruction in safe equipment operation and emergency response procedures, training new employees within 6 months and providing an annual training program refresher course. [3745-65-16(A)(B)(C)]		· 	<i>'</i>	#14
Β.	The facility keeps all records required by Section 265.16(d)(e) including written job titles, job descriptions and documented employee training records. [3745-65-16(D)(E)]		<u>~</u>		# /
9.	If required due to the actual hazards associated with Ignitable, Reactive or incompatible waste materials, the facility meets the following requirements: (Section 265.17) [3745-65-17]				
	a) Protection from sources of ignition.		<del></del>	· <u>·</u>	
	b) Physical separation of incompatible waste materials.	<del></del>		. 🔟	**************************************
	c) "No Smoking" or "No Open Flames" signs near areas where ignitable or Reactive wastes are handled.			. <	
	d) Any cominging of waste materials is done in a controlled, safe manner as prescribed by Section 265.17(b). [3745-65-17(B)]	السنبي	-		· ———
	#3 - ale MERSTERN PLAN DENELOPED				

HAZARDOUS WASTE MAN'AGENENT

	NOW PRODUCTION	<u>Yes</u>	<u>No</u>	<u>N/A</u>	Remark #
•	Subpart C: Preparedness and Prevention		,		
	llas there been a fire, explosion or non-planned release of hazardous waste at this facility? (265.31) [3745-65-31]	<del> +</del>	✓		THE PARTY NAMED IN COLUMN TO THE PARTY NAMED
2.	If required due to actual hazards associated with the waste material, the facility has the following equipment: $(265.32)$ [3745-65-32(A)(B)(C)(D)]	,		_/	
	a) Internal alarm system.				#
	b) Access to telephone, radio or other device for summoning emergency assistance.	<u> </u>	<del></del>	<u> </u>	<b>S</b>
	c) Portable fire control equipment.	<del></del>			
	d) Water of adequate volume and pressure via hoses sprinkler, foamers or sprayers.		<del></del>	~	,
	All required safety, fire and communications equipment is tested and maintained as necessary: testing and maintenance are documented. (265.33) [3745-65-33]		$\checkmark$		#6_
	If required due to the actual hazards associated with the waste material, personne have immediate access to an emergency communication device during times when hazardous waste is being physically handled. (265.34) [3745-65-34]			<del> </del>	#5
	If required due to the actual hazards associated with the waste material, adequate aisle space to allow unobstructed movement or emergency or spill control equipment is maintained. (265.35) [3745-65-35]	<u> </u>		<b>×</b>	
	If required due to the actual hazards associated with the waste material, the facility has attempted to make appropriate arrangements with local emergency service authorities to familiarize them with the possible hazards and the facility layout. (265.37(a)) [3745-65-37(A)]			~	/
	Where state or local emergency service authorities have declined to enter into any proposed special arrangements or agreements the refusal has been documented. (265.37(b)) [3745-65-37(B)]		der en en en en en en en	¥	
	45-TRUCKS EQUIPPED WITH RADIOS (CHINGE FROM	KAS.	T IN	SPEC	TION)
H	6- TESTING AND PREPAREDRESS AND PREVENTION - 1  MAINTENANCE NOT POSCUMENTED			Rev	/1sed 12/84

•	RCRA INTERIM STATUS INSTEGRITOR	•		H /A	Remark #
		Yes	. <u>No</u>	<u> 11/V</u>	Kemark B
•	Subpart D: Contingency and Emergency				
	The facility has a written Contingency Plan designed to minimize hazards from fire, explosions or unplanned releases of hazardous wastes (265.51) [3745-65-52(A)(B)(C)(D)(E)] and contains the following components:		<u> </u>		#7
	to be taken by personnel in the event of an emergency includes		~	/	
	terrogements or agreements with local or state emergency authorized			_	
	c) Names, addresses and telephone numbers of all persons qualified to do a	<u></u>	. <u>.</u>		
	d) A list of all emergency equipment including location, physical description	<del></del> _	. 🗸		
	e) If required due to the actual hazards associated with the waste(s) handles,		سخد ـ		
2.	A copy of the Contingency Plan and any plan revisions is maintained on-standing the Acopy of the Contingency Plan and any plan revisions is maintained on-standing the been submitted to all local and state emergency service authorities that might be been submitted to all local and state emergency service authorities that might be been submitted to all local and state emergency service authorities that might be been submitted to all local and state emergency service authorities that might be been submitted to all local and state emergency service authorities that might be been submitted to all local and state emergency service authorities that might be been submitted to all local and state emergency service authorities that might be been submitted to all local and state emergency service authorities that might be been submitted to all local and state emergency service authorities that might be been submitted to all local and state emergency service authorities that might be been submitted to all local and state emergency service authorities that might be been submitted to all local and state emergency service authorities that might be be all local and state emergency service authorities that might be be all local and state emergency service authorities and service authorities are serviced and service authorities are serviced and service authorities are serviced and serviced authorities are serviced and serviced authorities are serviced and serviced authorities are serviced authorities.	3)]			. —
3.	The plan is revised in response to facility, equipment and personner enamed.		_ +		-
	An emergency coordinator is designated at all times (on-site of on-carry) and has the familiar with all aspects of site operation and emergency Plan. (265.56) [3745-65-5]	.5]			- +
5.	. If an emergency situation has occurred, the emergency coordinator has and made all all or part of the Contingency Plan and has taken all of the actions and made all or part of the Contingency Plan and has taken all of the actions and made all or part of the Contingency Plan and has taken all of the actions and made all or part of the Contingency Plan and has taken all of the actions and made all or part of the Contingency Plan and has taken all of the actions and made all or part of the Contingency Plan and has taken all of the actions and made all or part of the Contingency Plan and has taken all of the actions and made all or part of the Contingency Plan and has taken all of the actions and made all or part of the Contingency Plan and has taken all of the actions and made all or part of the Contingency Plan and has taken all of the actions and made all or part of the Contingency Plan and has taken all or part of the Contingency Plan and has taken all or part of the Contingency Plan and has taken all or part of the Contingency Plan and has taken all or part of the Contingency Plan and has taken all or part of the Contingency Plan and has taken all or part of the Contingency Plan and has taken all or part of the Contingency Plan and has taken all or part of the Contingency Plan and has taken all or part of the Contingency Plan and taken all or part of the Contingency Plan and taken all or part of the Contingency Plan and taken all or part of the Contingency Plan and taken all or part of the Contingency Plan and taken all or part of the Contingency Plan and taken all or part of the Contingency Plan and taken all or part of the Contingency Plan and taken all or part of the Contingency Plan and taken all or part of the Contingency Plan and taken all or part of the Contingency Plan and taken all or part of the Contingency Plan and taken all or part of the Contingency Plan and taken all or part of the Contingency Plan and taken all or part of the Contingency Plan and taken all or part of the Contingency Plan and t	/-J) _		<u>/</u> _	
-	of the notifications decined incosses,  of the notification decined incosses,  of the notificatio	FOR	TH	us p	(PULITY)

Yes No N/A Remark #

#### Subpart E: Manifests/Records/Reporting

NOIE: THE FOLLOWING REQUIREMENTS ARE APPLICABLE TO BOTH ON-SITE AND OFF-SITE TREATMENT, STORAGE AND DISPOSAL FACILITIES.

- 1. The operator maintains a written operating record at his facility as required by Section 265.73 [3745-65-73(A)] which contains the following information:
  - a) Description and quantity of each hazardous waste treated, stored or disposed of within the facility and the date(s) and method(s) pertinent to such treatment, storage or disposal. (265.73(b)(1)) [3745-65-73(B)(1)]
- b) Common name, EPA Hazardous Waste Identification Number and physical state (liquid, solid, gas) of the waste(s).
- \_ \_ \_
- d) A description of the method(s) used to treat, store or dispose of the waste(s) using the EPA Handling Codes listed in 45 FR 33252 (May 19, 1980).

c) The estimated (or actual) weight, volume or density of the waste material(s).

- 5) \_ \_ \_
- e) The present physical location of each hazardous waste within the facility.
- f) FOR DISPOSAL FACILITIES, the location and quantity of each hazardous waste recorded on a map of the facility and cross-references to any pertinent manifest document number(s). (265.73(b)(2)) [3745-65-73(B)(2)]
- g) Records of any waste analyses and trial tests required to be performed.
- h) Records of the inspections required under Section 265.15 [3745.65.14] (General Inspection Requirements Subpart B).

- \_\_\_\_\_
- 1) Records of any monitoring, testing or analytical data required under other Subparts as referenced by Section 265.73(b)(6). [3745-65-73(B)(6)]
- \_ \_ \_
- j) Records of Closure cost estimates and Post-Closure (DISPOSAL ONLY) cost estimates required under Subpart G.

	162	<u>40</u>	<u>N/A</u>	Kemark #
ining all of the operating information required		_	<del></del>	#g
ENTS ARE APPLICABLE TO <u>ONLY</u> OFF-SITE TREATMENT, STORAGE	E AND DIS	POSAL I	FACILIT	IES.
is sent to the generator within 30 days and one copy	***************************************	<u> </u>		dentiti karanzaan karanzaan
		~	<b></b>	One condition and the control
are noted in writing on the manifest document.		~		wowness was a state of the stat
perator has submitted the required information to the	,	4		-
quantity generators) for treatment, storage, or waste report containing all the information required submitted to the Regional Administrator/Director		<u>~</u>	-	
Y DUES NOT MAINTAIN A WRIT	TEN O	PERF	TING	RECERD
REPORTS ARE NOT SUBMITTED				
TSTS HAVE NOT BEEN USED 1	FOR			
	facility are signed and dated; one copy is given to is sent to the generator within 30 days and one copy ars. (265.71) [3745-65-71(A)]  e used in lieu of manifests (bulk shipments, etc.) are met. (265.71(b)) [3745-65-71(B)]  epancies in the manifest, as defined in Section are noted in writing on the manifest document. [1(A)(2)]  shave been reconciled within 15 days as required by operator has submitted the required information to the fector. [3745-65-72(B)]  sed any unmanifested hazardous wastes from off-site quantity generators) for treatment, storage, or waste report containing all the information required a submitted to the Regional Administrator/Director [76(A)]  REPORTS ARE NOT SUBMITTED	ed an annual Treatment-Storage-Disposal Operating all of the operating information required (145-65-75)  ENTS ARE APPLICABLE TO ONLY OFF-SITE TREATMENT, STORAGE AND DISPOSATION OFF-SITE OFF-SITE TREATMENT, STORAGE AND DISPOSATION OFF-SITE OFF-S	and an annual Treatment-Storage-Disposal Operating ining all of the operating information required (A5-65-75)  ENTS ARE APPLICABLE TO ONLY OFF-SITE TREATMENT, STORAGE AND DISPOSAL IN Secret to the generator within 30 days and one copy irs. (265.71) [3745-65-71(A)	and an annual Treatment-Storage-Disposal Operating ining all of the operating information required [M45-65-75]  ENTS ARE APPLICABLE TO ONLY OFF-SITE TREATMENT, STORAGE AND DISPOSAL FACILIT facility are signed and dated; one copy is given to is sent to the generator within 30 days and one copy irs. (265.71) [3745-65-71(A)

HOEQUACY TO BE EVALUATED BY

#### RCRA INTERIM STATUS INSPECTION FORM

SUBPART F: GROUND WATER MONITORING

CME CURRENTAY
UNDER PREPARATION

Type	of facility: (check appropriately)	162	NO	UIIKHOWII	<u>ma i veu</u>
	<ul><li>a) surface impoundment</li><li>b) landfill</li><li>c) land treatment facility</li></ul>				
NOTE	UNDER INTERIM STATUS STANDARDS A WASTE PILE IS NOT SUBJECT TO GROUND WATER MUNITORING REQUIREMENTS. PLEASE NOTE, HOWEVER, THAT IF ANY HAZARDOUS WASTE FROM A WASTE PILE IS LEFT IN PLACE AT CLOSURE, THE "WASTE PILE" BECOMES A "LANDFILL" AND MUST MEET POST-CLOSURE RULES APPLICABLE TO LANDFILLS.				
Grou	ind Water Monitoring Program				
1.	Was the ground water monitoring program reviewed prior to site visit? If "No",				
	a) Was the ground water program reviewed at the facility prior to site inspection?	<del></del>	**************************************		
2.	Has a ground water monitoring program (capable of determining the facility's impact on the quality of ground water in the uppermost aquifer underlying the facility) been implemented? 265.90(a) [3745-65-90(A)]			<b>CONTRACTO</b>	
	Has at least one monitoring well been installed in the uppermost aquifer hydraulically upgradient from the limit of the waste management area? $265.91(a)(1)$ [3745-65-91( $\Lambda$ )(1)]		_		
	a) Are ground water samples from the uppermost aquifer, representative of background ground water quality and not affected by the facility (as ensured by proper well number, location and depths)?	<del></del>	renien makelon.		

		Yes	<u>No</u>	<u>Unknown</u>	<u>Wa1ved</u>
4 :	Have at least three monitoring wells been installed hydraulically downgradient at the limit of the waste handling or management area? 265.91(a)(2) [3745-65-91(A)(2)]		-		
	a) Do well number, locations and depths ensure prompt detection of any statistically significant amounts of hazardous waste or hazardous waste constituents that migrate from the waste management area to the uppermost aquifer?		geographic minggy		
5.	Have the locations of the waste management areas been verified to conform with information in the ground water program?				
	a) If the facility contains multiple waste management components, is each component adequately monitored?				
6.	Do the numbers, locations, and depths of the ground water monitoring wells agree with the data in the ground water monitoring system program? If "No", explain discrepancies.				
7.	Well completion details. 265.91(c) [3745-65-91(C)]				
	a) Are wells properly cased?		<del></del>	<del> </del>	
	b) Are wells screened (perforated) and packed where necessary to enable sampling at appropriate depths?			der sand-resonde	
	c) Are annular spaces properly sealed to prevent contamination of ground water?	<del></del>	<del> w</del>	******	

		Yes	<u>No</u>	<u>Unknown</u>	<u>Walved</u>
	Has a ground water sampling and analysis plan been developed? 265.92(a) [3745-65-92(A)]	-			
	a) Has it been followed?			<del>- Chinates - Person</del>	
	b) Is the plan kept at the facility?				
	c) Does the plan include procedures and techniques for:				
	1) Sample collection?				
	2) Sample preservation?		<del></del>		
	3) Sample shipment?		<del></del>		
	4) Analytical procedures?		<del></del>		
	5) Chain of custody control?				
•	Are the required parameters in ground water samples being tested quarterly for the first year? 265.92(b) [3745-65-92(B)] and 265.92(c)(1) [3745-65-92(C)]				
	a) Are the ground water samples analyzed for the following:				
	1) Parameters characterizing the sultability of the ground water as a drinking water supply? 265.92(b)(1) [3745-65-92(B)(1)]	<del></del>			
	<pre>2) Parameters establishing ground water quality? 265.92(b)(2) [3745-65-92(B)(2)]</pre>		<del>allale rivale</del>		<sub>5</sub> .
	3) Parameters used as indicators of ground water contamination? 265.92(b)(2) [3745-65-92(B)(3)]		<del></del>		
	(1) For each indicator parameter are at least four replicate measurements obtained at each upgradient well for each sample obtained during the first year of monitoring? 265.92(c)(2) [3745-65-92(C)(2)]				
	consectives [aim-on-actol(c)]				

				<u>Yes</u>	<u>No</u>	<u>Unknown</u>	Malved
•		(11)	Are provisions made to calculate the initial background arithmetic mean and variance of the respective parameter concentrations or values obtained from the upgradient well(s) during the first year? 265.92(c)(2) [3745-65-92(C)(2)]				
	b)		lities which have completed first year ground water sampling ysis requirements:				
		1) Have qual	samples been obtained and analyzed for the ground water  1ty parameters at least annually? 265.92(d)(1) [3745-65-92(D)(l)]				
		grou	<pre>samples been obtained and analyzed for the indicators of nd water contamination at least semi-annually? (4 replicate urements per sample) 265.92(d)(2) [3745-65-92(D)(2)]</pre>		************		
	c)	Were growell eac	und water surface elevations determined at each monitoring h time a sample was taken? 265.92(e) [3745-65-92(E)]	<del>,</del>	<del></del>		
	d)	Were gro the mont	und water surface elevations evaluated annually to determine whether toring wells are properly placed? 265.92(f) [3745-65-92(E)]	<b>-</b>	***************************************		
	e)	of monit	s determined that modification of the number, location or depth oring wells was necessary, was the system brought into compliance .91(a) [3745-65-91(A)]? 265.93(f) [3745-65-93(F)]	<b>CARACTURE</b>	4001AGERTINE		
10.			ne of a ground water quality assessment program been 65.93(a) [3745-65-93(A)]	<del></del>	www.distalista		
	a)	Does 1t	describe a program capable of determining:				
		•	her hazardous waste or hazardous waste constituents have red the ground water?	-	<del></del>		
			rate and extent of migration of hazardous waste or rdous waste constituents in ground water?	AQUAD NO TORRE			
		•	entrations of hazardous waste or hazardous waste tituents in ground water?		<u> </u>		

			<u>Yes</u>	<u>No</u>	<u>Unknown</u>	<u>Walved</u>
٠	b)	After the first year of monitoring, have at least four replicate measurements of each indicator parameter been obtained for samples taken for each well? 265.93(b) [3745-65-93(B)]				
		1) Were the results compared with the initial background means from the upgradient well(s) determined during the first year?		<i>∞-</i>		
		(1) Was each well considered individually?	<del></del>			
		(11) Was the Student's t-test used (at the 0.01 level of significance?)				
		2) Was a significant increase (or pH decrease as well) found in the:				
		(1) Upgradient wells (If "Yes", Compliance Checklist A-2 must also be completed.) [3745-65-93(C)(1)]		<del>,, , , , , , , , , , , , , , , , , , ,</del>		
		(11) Downgradient wells		<del></del>		
	fro	"Yes", owner or operator must obtain, split, and analyze additional samples om the wells where a significant difference was detected. If the difference confirmed, the Director should be notified in writing within 7 days and a bund water assessment plan within 15 days. [3735-65-93(C)(2) and (D)(2)(3)]				
11.	llav and	ve records been kept of analyses for parameters in 265.92(c) i (d) [3745-65-92(C) and (D)? 265.94(a)(l) [3745-65-94(A)(l)]				
12.	Hav t1m	ve records been kept of ground water surface elevations taken at the ne of sampling for each well? 265.94(a)(1) [3745-65-94(A)(1)]	<del>alexander de</del>	<b>*********</b>		
13.	llav 265	ve records been kept of required elevations in 265.93(b) [3745-65-93(B)]? 5.94(a)(1) [3745-65-94(A)(1)]	<del>6.,</del>			
14.		ve the following been submitted to the Director of the Ohio EPA: 5.94(a)(2) [3745-65-94(A)(2)]				
	a)	Initial background concentrations of parameters listed in 265.92(b) [3745-65-92(B)] within 15 days after completing each quarterly analysis required during the first year?		i.		

			162	NO	UIIKIIOWII	Maiveu
))	For each well, have any parameters whose concentratinave exceeded the maximum contaminant levels allowed water supplied been separately identified?			•		
: )	) Annual reports including: [3745-65-94(Λ)(2)]	•				
	<ol> <li>Concentrations or values of parameters used as 1 ground water contamination for each well along we evaluations under 265.93(b) [3745-65-93(B)]?</li> </ol>					
	2) Any significant differences from initial backgro in upgradient wells separately identified?	ound values				
	3) Results of the evaluation of ground water surface	e elevations?		<del></del>		

Comments: Subpart F

GROUNDWATER - 6

Remark # Yes · No NZA

#### Subpart G: Closure and Post-Closure

NOTE: THE FOLLOWING REQUIREMENTS ARE APPLICABLE TO BOTH DISPOSAL AND NON-DISPOSAL FACILITIES.

- 1. A written Closure Plan is on file at the facility and contains the following elements: (Section 265.112) [3745-66-12]

a) A description of how and when the facility will be closed. (265.112(a)(1)) [3745-66-12(A)(1)]

- b) A description of how any of the applicable closure requirements in other Subparts of Section 265 [3745-66] (Tanks, Surface Impoundments, Landfill, etc.) will be carried out.
- c) An estimate of the maximum amount of hazardous wastes being treated or in storage at the facility. (NOTE: Maximum inventory should agree with the permit.)

- d) A description of steps taken to decontaminate facility equipment.
- e) The year closure is expected to begin and a schedule for the various phases of closure.

- 2. The Closure Plan has been amended within 60 days in response to any changes in facility design, processes or closure dates. (265.112(4)(B)) [3745-66-12(B)]
- 3. The Closure Plan has been submitted to the Regional Administrator/Director 180 days prior to beginning the Closure process. (265.112(4)(C)) [3745-66-12(C)]

(OR POST - CLOSURE) CLOSURE PEANS AVAILABLE

		<u>Yes</u>	. <u>No</u>	N/A	Remark #
	Subpart H: Financial Requirements	•			
۱.	The owner or operator of the facility has established financial assurance for closure by use of one of the following: (265.143) [3745-66-43]				1
	a) A closure trust fund, or	**************************************	$\checkmark$	<del></del>	# 12
	b) A surety bond, or		~		
	c) A closure letter of credit, or	<b>GLEOGRAPHY</b>			
	d) A combination of financial mechanisms.	****	~		
2.	A written cost estimate for closure of the facility (as specified in the closure plan) is available. How much is it?			<del></del>	
3.	When was the most recent estimate made?		<u> </u>		
١.	A written cost estimate for post closure care of the facility (if applicable) is available. How much is it?	<del></del>	~	•	<u> </u>
5.	When was the most recent estimate made?	-	<u> </u>		

#### REMARKS, GENERAL INTERIM STATUS REQUIREMENTS

# 12 - NO FINANCIAL ASSURANCE ESTABLISHED

(NO FIABILITY CONTRACE ESTABLISHED)

(40 CFR 265.147, EAC 3745-66-47)

			Yes	. <u>No</u>	N/A	Remark #
·		Subpart N: Landfills				
1.	Ger	neral Operating Requirements. Does the facility provide the following:				
<u>NO 1</u>	<u>E</u> :	1a, 1b AND 1c ARE EFFECTIVE ON NOVEMBER 19, 1981.				J
	a)	Diversion of run-on away from active portions of the fill? (265.302(a)) [3745-68-02(A)]	<del></del>	<u> </u>		<del>#</del> /3
	b)	Collection of run-off from active portions of the fill? (265.302(b)) [3745-68-02(B)]		<b>L</b>	<del>(</del>	
	c )	Is collected run-off treated? [3745-68-02(B)]	************	1		
	d)	Control of wind dispersal of hazardous waste? (265.302(d)) [3745-68-02(D)]		~		
2.	Sui	rveying and Recordkeeping. Does the operating record include: [3745-68-09]				
	a)	a map showing the exact location and dimensions of each cell? (269.309(a)) [3745-68-09(A)]	,	<u> </u>		
	b)	The contents of each cell and the location of each hazardous waste type within each cell? (269.309(b) $[3745-68-09(B)]$	<del></del>	×	<del>districtio</del>	
3.	Clo	osure and Post-Closure				. )
	a)	Is the closure Plan available for inspection?		~		#//
	b)	Has this plan been submitted to the Regional Administrator?		V	,	
	c)	Has Closure begun?	·	$\checkmark$	<i></i>	****
	d)	Is Closure cost estimate available by?		¥		
7	<i>d</i> ,	13 - OPERATING REGULASMENTS INCLUDE SPECIE	<i>,</i> c	DES.	14 N ,	

# 13 - OPERATING REGULARMENTS INCLUDE SPECIFIC DESIGN CONSTRUCTION OPERATION AND MAINTENANCE CRITERIA

FOR RUN - OFF AND RUN - ON CONTROL AND FOR

LANDFILLS - 1 WIND DISPIRSAL

CONTROL REV

Revised 12/84

		<u>Yes</u>	. <u>No</u>	N/A	Remark #
4.	Special requirements for ignitable or reactive waste. (265.312(a)(B)				
	a) Are ignitable or reactive waste treated so the resulting mixture is no longer ignitable or reactive?		-	<u>~</u>	4
<u>no t</u>	E: IF WASTE IS RENDERED NON-REACTIVE OR NON-IGNITABLE, SEE TREATMENT REQUIREMENTS. IF NOT, THE PROVISIONS OF 40 CFR 265.17(b) APPLY. [3745-65-17]				
5.	Special requirements for Incompatible Wastes.				
	a) Does the owner or operator dispose of incompatible wastes in separate cells? If not, the provisions of 40 CFR 265.17(b) apply. [3745-65-17]			<u>~</u>	<b>(1)</b>
6.	Special requirements for Containers:				
	Are empty containers crushed flat, shredded, or similarly reduced in volume before being buried beneath the surface of the landfill? (265.315) [3745-57-85]	n <del>e sociensille</del>	·	$\checkmark$	
7.	Special requirements for Liquid Waste.				
	Bulk or non-containerized liquid waste or waste containing free liquids is placed in a landfill having a liner and leachate collection and removal system meeting 264.301(a) requirements or is treated so that free liquids are no longer present. (265.314(a)) [3745-68-14(A)]		¥		
8.	A written Post-Closure Plan is on file at the facility.		~		#11
9.	The Post-Closure Plan has been amended within 60 days in response to any changes in facility design or operation. (265.118(b))		~		
10.	The Post-Closure Plan has been submitted to the Regional Administrator/Director 180 days prior to beginning Closure. (265.118(c))		¥	<del></del>	
11.	The property owner has attached a notation to the property deed or other instrument which will notify any potential purchaser that the property has been used to manage hazardous waste and future use of the property is restricted under Section 265.117(c) [3745-66-17(C)] as required in Section 265.120 [3745-66-10].		<u>~</u>		
			-	****	

Date and Time of Inspection

	•	IIWFAB #
GENERAL INFORMATION		U.S. EPA 1.D. # OND 981 909416
- 1314 / S	Fundas Address: 1001 E. BRINDWAY	City: ALCIANCE
State: ()//m	Zip Code: 44601 County: STARK I	elephone: (216)823-6150
State. Chare	INSPECTION PARTICIPANT(S)	
(Nama)	(Title)	(Telephone)
(Name)	WARKS SUGINIER	(21) 823-6150
1. FAUL LIMBACH	MGR. QUALITY HAD ENVIRONMENT	
2. CHACKES KUUD	116R. QUALITY HAD ENVIRONMENTE	
3.	INSPECTOR(S)	
/ 0	ENJIRONMENTAL SCHNILST,	5410 EBA (218) 425-9171
1. Keylal & Janto	CALLIADAIMINIAL DENNITOR,	
2.		
3.	INSTALLATION ACTIVITY	
	If the site is a TSDF, check the boxes indicating	which areas were reviewed.
Mark One	If the site is a ispr, check the boxes indicating	
/X/ Generator only (G)	General Facility Standards, Preparedness	∠/ Waste Piles SO3
The denerator only (a)	and Prevention, Contingency and Emergency	/ / Land Treatment D81
/_/ Transporter (T)	Manifests/Records/Reporting, Closure	
/ / TSUF only	Containers SOI - TRAILCRS FOR	/_/ Landfills DOO
-	// Tanks S02/101	/ / Chemical/Physical/
/ G-T	in the second se	Biological TO4
/_/ G-TSDF	/_/ Surface Impoundments S04/102	/ / Groundwater Honitoring
/ / 1-TSDF	/ / Inclneration/Thermal Treatment	·
( 1-1301	Lancard Control of the Control of th	/_/ Post-Closure
/ / G-1-1SDF		••

Yes Has the facility submitted a Part A to Ohio? If "yes", is it complete and accurate? Has the facility submitted a Part B? Was advance notice of the inspection given? If so, how far in advance?

> REMARKS, GENERAL INFORMATION Include a brief description of site activity and waste handling.

IF THE SITE HAS RECEIVED A PART B PERMIT, USE THE RCRA STATUS INSPECTION FORM.

N/A

.No

Remark #

#### 40 CFR 262 (OAC 3745-52) GENERATOR REQUIREMENTS

- The hazardous waste(s) generated at this facility have been tested or are acknowledged to be hazardous waste(s) as defined in Section 261 and in compliance with the requirements of Sections 262.11. [3745-52-11(D)]
- 2. Does this facility generate any hazardous wastes that are excluded from regulation under Section 261.4 [3745-51-04] (statutory exclusions) or Section 261.6 [3745-51-06(A)(1)] (recycle/reuse)?
- 3. Does this facility have waste or waste treatment equipment that is excluded from regulation because of totally enclosed treatment (Section 265.1(c)(9)) [3745-65-01] or via operation of an elementary neutralization unit and/or wastewater treatment unit (Section 265.1(c)(10) [3745-65-01]
- 4. The generator meets the following requirements with respect to the preparation, use and retention of the hazardous waste manifest:
  - a) The manifest form used contains all of the information required by Section 262.21(a) and (b) [3745-52-21] and the minimum number of copies required by Section 262.22 [3745-52-22].
  - b) The generator has designated at least one permitted disposal facility and has/will designate an alternate facility or instructions to return waste in compliance with Section 262.20 [3745-52-20(B)(C)(D)].
  - c) Prepared manifests have been signed by the generator and initial transporter in compliance with Section 262.23 [3745-52-23(A)(1 and 2)].
  - d) The generator has complied with manifest exception reporting requirements (investigate after 35 days, report after 45 days) in Section 262.42(a)(b) [3745-52-42].
  - e) Signed copies of all hazardous waste manifests and any documentation required for Exception Reports are retained for at least 3 years as required by Section 262.40 [3745-52-40]. (262.40(a)) [3745-52-40(a)]

MANIFESTED,

AS HAZARDOUS

WASTE

\_ \_ \_ \_

\_ \_ \_ #1

V \_ N.J. Zinc. Co

\_ \_ \_

\_ \_ /\_\_\_

	,		<u>Yes</u>	No	<u>N/A</u>	Remark #
5.	The	generator meats the following hazardous waste pre-transport requirements:				
	a)	Prior to offering hazardous wastes for transport off-site the waste material is packaged, labeled and marked in accord with applicable DOT regulations (Section 262.30, 262.31 and 262.32(a)) [3745-52-30, 3745-52-31, 3745-52-32]	<u>/</u>	ويهسبجسمه	Conditionare to	Sankaumahounko-salvimettyisinkoisty)
	b)	Prior to offering hazardous wastes for transport off-site each container with a capacity of 110 gallons (416 liters) or less is affixed with a completed hazardous waste label as required by Section 262.32(b) [3745-52-32].	Warmer and the second		<u> </u>	
	c)	The generator meets requirements for properly placarding or offering to properly placard the initial transporter of the waste material in compliance with Section 262.33 [3745-52-33].	<u> </u>			TRANSPORTER PLACAROS. ASF NEED
6.	Haza	ardous wastes imported from or exported to foreign countries are handled in accordance with the requirements of Section 262.50 [3745-52-50]	-	•	_	PENCAROS HA
7.	<u>tanl</u> Sec	the generator elects to store hazardous waste on-site in <u>containers</u> or <u>ks</u> for <u>90 days</u> or less without a RCRA storage permit as provided under tion 262.34 [3745-52-34], the following requirements with respect to h storage are met:				
	a)	The containers are clearly marked with the words "Hazardous Waste".	<u> </u>	,	-	
	b)	The date that accumulation began is clearly marked on each container.	$ \mathcal{L} $			
9.	Sec equ with	generator has provided a Personnel Training Program in compliance with tion 265.16(a)(b)(c) [3745-65-16(A)(B)(C)] including instruction in safe ipment operation and emergency response procedures, training new employees hin 6 months and providing an annual training program refresher course. ction 262.34) [3745-52-34(A)(4)]		******	#Transillada	# 2
9.	[37	generator keeps all of the records required by Section 265.16(d)(e) 45-65-16(D)(E)] including written job titles, job descriptions and documented loves training records (Section 262.24) [3745.62.24(A)(A)]				#7

NOTE:

SHORT-TERM STORAGE FOR 90 DAYS OR LESS IN TANKS AND CONTAINERS ALSO REQUIRES THAT REGULATIONS IN SECTION 265 [3745-65], SUBPARTS C AND D (PREPAREDNESS AND PREVENTION PLUS CONTINGENCY AND EMERGENCY) AND CERTAIN PORTIONS OF THE "CONTAINERS" AND "TANKS" RULES DE MET. COMPLETE THE APPROPRIATE SECTIONS OF THE INSPECTION FORM.

# REMARKS, GENERATOR REQUIREMENTS

150 CONTAIN ALL å THE MANIFESTS WHEREAS

SEBRING DISPOSAL 344 15 05116 INFORMATION, ASF REDVINED

けの井 FACILITY

ON AT KEAST TWO MANIFESTS (DOCUMENT Ag + 10)

40 CFR 265, 16 MAI PLRSONNEL. TRAINING REQUIREMENTS OF

DAC. 37YST 65-16 ARE SPECIFIC RUKES

PROPERLY MANAGE イスング HSF H ~ TRAINING PERSONNEL

WASTES. HA ZHROOUS

OINTERED

REGUIRED MAINTAIN PROBRAM AND A TRAINING

DESCRIP TIONS V013 120 Reconos

GENERATOR - 3

## N/A Remark # No Yes Subpart C: Preparedness and Prevention 1. Has there been a fire, explosion or non-planned release of hazardous waste at this facility? (265.31) [3745-65-31] 2. If required due to actual hazards associated with the waste material, the facility has the following equipment: (265.32) [3745-65-32(A)(B)(C)(D)] Internal alarm system. Access to telephone, radio or other device for summoning emergency assistance. Portable fire control equipment. d) Water of adequate volume and pressure via hoses sprinkler, foamers or sprayers. Rich 3. All required safety, fire and communications equipment is tested and maintained as necessary; testing and maintenance are documented. (265.33) [3745-65-33] If required due to the actual hazards associated with the waste material, personnel NTERCOM AT have immediate access to an emergency communication device during times when HOJH CLUT hazardous waste is being physically handled. (265.34) [3745-65-34] TO BAGNOUSLI 5. If required due to the actual hazards associated with the waste material, adequate aisle space to allow unobstructed movement or emergency or spill control equipment is maintained. (265.35) [3745-65-35] 6. If required\_due to the actual hazards associated with the waste material, the facility has attempted to make appropriate arrangements with local emergency service authorities to familiarize them with the possible hazards and the facility layout. (265.37(a)) [3745-65-37(A)] 7. Where state or local emergency service authorities have declined to enter into any proposed special arrangements or agreements the refusal has been documented. (265.37(b)) [3745-65-37(B)]

Yes No N/A Remark #

# Subpart D: Contingency and Emergency

			Suppart of					
۱.	f 1	re.	facility has a written Contingency Plan designed to minimize hazards from , explosions or unplanned releases of hazardous wastes (265.51)	COPY	(w	TIME	spection.	
	a)		Actions to be taken by personnel in the event of an emergency increases		$\overline{\checkmark}$	3	JBMITTED TO	
	b)		Arrangements or agreements with local or state emergency authorities.				RESPONSE LES	
	C		Names, addresses and telephone numbers of all persons qualified to act as emergency coordinator.	<u> </u>		-		
	d	1)	A list of all emergency equipment including location, physical description	1	<u></u>			
		<b>:</b> )	If required due to the actual hazards associated with the waste(s) handled,	<del></del>		$\checkmark$	C. P. MAINTAIN	(۱۶
2.		A ce	opy of the Contingency Plan and any plan revisions is maintained chaster of the contingency Plan and state emergency service authorities that might be n submitted to all local and state emergency service authorities that might be n submitted to all local and state emergency service authorities (3745-65-53(A)(B))		<u> </u>	·	SUMITED 1 ANY EMEREEN RESPONSE	re)
	•	The	plan is revised in response to facility, equipment and personner changes plan (265.54) [3745-65-54]			_	PENCIES.	
	۱.	An fan	emergency coordinator is designated at all times (on-site of on-carry)  niliar with all aspects of site operation and emergency procedures and has the  niliar with all aspects of the Contingency Plan. (265.56) [3745-65-55]	1				•
5	5.		an emergency situation has occurred, the emergency coordinator has implemented an emergency situation has occurred, the emergency coordinator has implemented and emergency situations and made all of the actions and made all or part of the Contingency Plan and has taken all of the actions and made all the potifications deemed necessary under Sections 265.56(a-j). [3745-65-56(A-J) the potifications deemed necessary under Sections 265.56(a-j).			<u> </u>		

## Subpart I: Management of Containers

		<u>Yes</u>	<u>No</u>	N/A	Remark #
1.	Hazardous wastes are stored in containers which are:		,		· ·
	a) Closed (265.173) [3745-66-73(A)]	1	·		
	b) In good physical condition (265.171) [3745-66-71]	<u> </u>		-	· .
	c) Compatible with the wastes stored in them (265.172) [3745-66-72]	كذ	, 	maken et de	
2.	Containers are stored closed except when it is necessary to add or remove wastes. (265.173(a)) [3745-66-73(A)]	<u> </u>	/ 		ROLL BACK
3.	Hazardous waste containers are stored, handled and opened in a manner which prevents container rupture or leakage. (265.173(b)) [3745-66-73(B)]	<u> </u>	/ 		4-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
4.	The area where containers are stored is inspected for evidence of leaks or corrosto at least weekly and such inspections are documented. (265.174) [3745-66-74]	n			RECO CERY OF INSPECTION FORM
5.	Containers holding Ignitable or Reactive waste(s) are located at least 50 feet (15 meters) from the property line and the general requirements for handling such wastes in Section 265.17 (physical separation, signs and safety) are met (265.176) [3745-66-76]	<del></del>		<u>~</u>	
6.	Containers holding hazardous wastes are stored separate from other materials which may interact with the waste in a hazardous manner. (265.177(c)) [3745-66-77(C)]	/	•		

Date and Time of Inspect	RCRA INTERIO GILLIA	
		HWFAB #
TORUSTION	County: MAHONING Teleph Code: County: MAHONING Teleph	K CITY.
GENERAL INFORMATION	Teleplanders: LAKE PHAR BETTER	hone: No TELEPHONE
facility: Howards Tip	Code:County: _///AGCTON PARTICIPANT(S)	
State: CHIO 210	INSPECTION PARTICIPATION	(Telebhone)
	(Title)	216/823-6150
(Name)	WORKS ENGINEER	CNIRS 312/938-4018
1. DAVIDE, STATE	12 2 CONSULT AND ENVIRONMENTAL THE	
2. CHARLES A. RUC		Sil
3.	INSPECTOR(S)  ENVIRONMENTAL SCIENTIST	214/425-9171
	SILLEDNING AL SCIENTIST	216/425-9171
1. Keyw 177. Bowi	C I ME UT HE	
1. TUCNERO	naal	
B. V	INSTALLATION ACTIVITY	were reviewed.
3.	INSTALLATION ACTIVITY  If the site is a TSDF, check the boxes indicating wh	ich areas word
week One	If the site is a isbi, such	/ / Waste Piles SO3
Mark One	General Facility Standards, Preparedness	/ / Land Treatment D81
Generator only (G)	General Facility Standards, Prepared and Emergency and Prevention, Contingency and Emergency Manifests/Records/Reporting, Closure	
1	Manifests/Records/Reports 1837	Landfills DBO
// Transporter (T)	Containers SO1	chemical/Physical/
TSOF only		Biological TO4
,		Groundwater Monitoring
/_/ 6-1	/ / Surface Impoundments S04/T02	Groundwater
/_/ G-TSOF	/ / Incineration/Thermal Treatment	/ / Post-Closure
/ / T-TSDF	/ Incineration/	
/_/ G-T-TSDF		Revised 12/84
	INFORMATION - 1	Revised 1270.

- Has the facility submitted a Part A to Ohio?
- If "yes", is it complete and accurate?
- Has the facility submitted a Part B?
- Was advance notice of the inspection given? If so, how far in advance? IF THE SITE HAS RECEIVED A PART B PERMIT, USE THE RCRA STATUS INSPECTION FORM.

Remark #  $H/\Lambda$ 

REMARKS, GENERAL INFORMATION Include a brief description of site activity and waste handling.

REMARK 1 - PART A SUBMITTED TO US ERA AND DEPA. WITHDRAWL BY USEPA EFFECTIVE 19 APRIL 1983. ON 19 NOV. 1984, DEPH INSPECTED THIS FACILITY TO YERIFY REGUEST FOR WITHDRAWL OF PART A. PART A WITHDRAW LEVILE SUBMITTED BY AST TO GEPA ON 16 JULY 1951

SITE DESCRIPTION - THIS DISPUSAL SITE IS OWNED BY ASF AND WAS FORMERLY A COAL STRIP MINE CATER MINED FOR CLAY. ASF HAS OPERATED THIS 12. 5 ACRE SITE FOR DISPOSAL OF FOUNDRY SAND, SCAGO SCUDGE AND EAF INFORMATION - 2 EMISSION CONTROL DUST Revised 12/84

	RCRA INTERIM STATUS INSPECTION FORM				
:	CTATUS DECULTREMENTS AND TSD REQUIREMENT	115			
40 C	FR 265 (OAC 3745-65-et seq.) GENERAL INTERIM STATUS REQUIREMENTS AND TSD REQUIREMEN	Yes	No	N/A	<u>Remark #</u>
10 0					
	Subpart B: General Facility Standards				74
	The operator has a detailed chemical and physical analysis of the waste material containing all of the information which must be known to properly treat or store the waste as required by Section 265.13(a) [3745-65-13(A)(1)]	<u> </u>		<u></u>	
2.	The operator has a written waste analysis plan which describes and responses parameters, test methods, sampling methods, testing frequency and responses to any process changes that may affect the character of the waste.	gypginegysydd	X	) our	#
3.	a) Would physical contact with the waste structures or equipment might unknowing/unauthorized persons or livestock entering the facility?				
	b) Would disturbance of the waste cause a violation of the hazardous waste b) Would disturbance of the waste cause a violation of the hazardous waste cause waste cause a violation of the hazardous waste cause waste cause a violation of the hazardous waste cause	$\checkmark$			
	IF BOTH 3a AND 3b ARE "NO", MARK QUESTIONS 4 AND 5 "NOT APPLICABLE".				
4.	The facility has -				
	a) A 24-hour surveillance system, or				步之
	b) An artificial or natural barrier and a means to control entry as $\frac{1}{2}$		<u>ب</u>		The state of the s
5	The facility has a sign "Danger-Unauthorized Personnel Keep Out" at each entrance to the active portion of the facility and at other locations as necessary. (265-14(c)) [3745-65-14(C)]				
	REMARKS - # 1 NO WASTE ANALYSIS PLAN DEVE	LOPE. UTHE CK	D AST RD.	IJ, A Re	evised 12/84

		<u>Yes</u>	140	<u>H/A</u>	Kemark #
6.	a) The operator has developed and followed a comprehensive, written inspection plan and documented the inspections, malfunctions and any remedial actions taken in an operating record log which is kept for at least three years. (265.15) [3745-65-15]		$ \underline{\checkmark} $		# 3
	b) Areas subject to spills (i.e., loading and unloading areas, container storage areas, etc.) are inspected daily when in use and according to other applicable regulations when not actively in use. (265.15(b)(4)) [3745-65-15(B)(4)]		$\leq$		
7.	The facility has provided a Personnel Training Program in compliance with Section 265.16(a)(b)(c) including instruction in safe equipment operation and emergency response procedures, training new employees within 6 months and providing an annual training program refresher course. [3745-65-16(A)(B)(C)]			16	# 4
8.	The facility keeps all records required by Section 265.16(d)(e) including written job titles, job descriptions and documented employee training records. [3745-65-16(0)(E)]	540-Americk 17	$\preceq'$	<del></del>	#4
9.	If required due to the actual hazards associated with Ignitable, Reactive or incompatible waste materials, the facility meets the following requirements: (Section 265.17) [3745-65-17]			/	•
	a) Protection from sources of ignition.		<del></del>	<u>~</u>	,
	b) Physical separation of incompatible waste materials.				**************************************
	c) "No Smoking" or "No Open Flames" signs near areas where Ignitable or Reactive wastes are handled.		**********		
	d) Any comingling of waste materials is done in a controlled, safe manner as prescribed by Section 265.17(b). [3745-65-17(B)]		g2_1000000F	$\checkmark$	
	REMARKS- #3 NO INSPECTION PLAN DEVELOPED # 4 NO PERSONNEL TRAINING SPECIFIC	TO	110	PARC	0645
	WHSTE MANAGEMENT				

		Yes	No	N/A	Remark #
	, , , , , , , , , , , , , , , , , , ,	102			
	Subpart C: Preparedness and Prevention				
١.	Has there been a fire, explosion or non-planned release of hazardous waste at this facility? (265.31) [3745-65-31]		<u> </u>		
2.	If required due to actual hazards associated with the waste material, the facility has the following equipment: $(265.32)$ [3745-65-32(A)(B)(C)(D)]				
:	a) Internal alarm system.				#
:	b) Access to telephone, radio or other device for summoning emergency assistance.		<u> </u>	, /	
	c) Portable fire control equipment.		<del></del>	' <del>'                                   </del>	
	d) Water of adequate volume and pressure via hoses sprinkler, foamers or sprayers.		<del></del>		
3.	All required safety, fire and communications equipment is tested and maintained as necessary; testing and maintenance are documented. (265.33) [3745-65-33]	<u> </u>	<u> </u>		# 1
4.	the tasks return beyards associated with the waste material, personnel	$\checkmark$	_		# 2
5.	If required due to the actual hazards associated with the waste material, adequate aisle space to allow unobstructed movement or emergency or spill control equipment is maintained. (265.35) [3745-65-35]		- Очеформ— <u>——</u>	<u> </u>	dia painya katangan ang katangan
6.	If required due to the actual hazards associated with the waste material, the facility has attempted to make appropriate arrangements with local emergency service authorities to familiarize them with the possible hazards and the facility layout. (265.37(a)) [3745-65-37(A)]			$\checkmark$	·# 3
7.	into any proposed special arrangements or agreements the refusal has been decumented (265.37(b)) [3745-65-37(B)]		<u> </u>	<u> </u>	
	REMARKS - # 1 REGURES COMMUNICATION DEVICE BE 11  AT THE SCENE OF GREATIONS. NO PHONE  PREPAREDNESS AND PREVENTION - 1 PURING				
160	7 TRUCKS EWUIPPED WITH RADIUS			HC & C	<b></b>
	the morrowal is NOT 16NIMBLE OR REAC	در رس	<b>s</b> '		

	<u>Y</u>	<u>e s</u>	. <u>No</u>	$\overline{\Pi \setminus V}$	Kemark #	
•	Subpart D: Contingency and Emergency					
	The facility has a written Contingency Plan designed to minimize hazards from fire, explosions or unplanned releases of hazardous wastes (265.51) [3745-65-52(A)(B)(C)(D)(E)] and contains the following components:				# 1	
	a) Actions to be taken by personnel in the event of an emergency incident.	—	<u> </u>		th ,	
	b) Arrangements or agreements with local or state emergency authorities.			<del></del>		
	c) Names, addresses and telephone numbers of all persons qualified to act as emergency coordinator.	<del></del>	<u> </u>		ed (	
	d) A list of all emergency equipment including location, physical description and outline of capabilities.		<u> </u>	<del></del>	#	
	e) If required due to the actual hazards associated with the waste(s) handled, an evacuation plan for facility personnel. (265.51(f)) [3745-65-52(F)]		$\checkmark$	-		
2.	A copy of the Contingency Plan and any plan revisions is maintained on-site and has been submitted to all local and state emergency service authorities that might be required to participate in the execution of the plan. (265.53) [3745-65-53(A)(B)]		<u>~</u>		# 1	
3.	The plan is revised in response to facility, equipment and personnel changes or failure of the plan. (265.54) [3745-65-54]		~	<del></del>	# 1	
4.	An emergency coordinator is designated at all times (on-site or on-call) is familiar with all aspects of site operation and emergency procedures and has the authority to implement all aspects of the Contingency Plan. (265.56) [3745-65-55]		<u> </u>		** Z:	
5.	all or part of the Contingency Plan and has taken at 100 the dotter. [3745-65-56(A-J) of the notifications deemed necessary under Sections 265.56(a-j). [3745-65-56(A-J)		~		# 1, # 6	2.
	PEMPRES - # 1 NO CONTINGENCY PLAN HAS BEEN	OE	VELO	PED		
	REMPERS SMERGENCY COOR	Ď~	レルアロ	K.		

Yes No N/A Remark #

## Subpart E: Manifests/Records/Reporting

NOIC: THE FOLLOWING REQUIREMENTS ARE APPLICABLE TO <u>DOIN</u> ON-SITE AND OFF-SITE TREATMENT, STORAGE AND DISPOSAL FACILITIES.

Sect	operator maintains a written operating record at his facility as required by .ion 265.73 (3745:65:73(A)) which contains the following information:				
a)	Description and quantity of each hazardous waste treated, stored or disposed of within the facility and the date(s) and method(s) pertinent to such treatment, storage or disposal. $(265.73(b)(1)) \stackrel{<}{\sim} [3745-65-73(B)(1)]$		<u>,</u>	en sek	at land
b)	Common name, EPA Hazardous Waste Identification Number and physical state (11quid, solid, gas) of the waste(s).	<del>52</del> -27		the second	**************************************
c )	The estimated (or actual) weight, volume or density of the waste material(s).		<u> </u>		
<b>d</b> )			<u>\( \) \</u>		
e)	The present physical location of each hazardous waste within the facility.	·	$\checkmark$	<del></del> -	<del></del>
f)			<u> </u>	·	
g)	Records of any waste analyses and trial tests required to be performed.		4	4	
h)	Records of the inspections required under Section 265.15 [3745.65.14] (General Inspection Requirements - Subpart B).	<del></del>	<u> </u>	<u> </u>	
1)	Records of any monitoring, testing or analytical data required under other Subparts as referenced by Section 265.73(b)(6). [3745-65-73(B)(6)]		1	<del></del>	
(t	Records of Closure cost estimates and Post-Closure (DISPOSAL ONLY) cost estimates required under Subpart G.				<u> </u>
	a) b) c) d) e) f)	<ul> <li>a) Description and quantity of each hazardous waste treated, stored or disposed of within the facility and the date(s) and method(s) pertinent to such treatment, storage or disposal. (265.73(b)(1)) [3745-65-73(B)(1)]</li> <li>b) Common name, EPA Hazardous Waste Identification Number and physical state (liquid, solid, gas) of the waste(s).</li> <li>c) The estimated (or actual) weight, volume or density of the waste material(s).</li> <li>d) A description of the method(s) used to treat, store or dispose of the waste(s) using the EPA Handling Codes listed in 45 FR 33252 (May 19, 1980).</li> <li>e) The present physical location of each hazardous waste within the facility.</li> <li>f) FOR DISPOSAL FACILITIES, the location and quantity of each hazardous waste recorded on a map of the facility and cross-references to any pertinent manifest document number(s). (265.73(b)(2)) [3745-65-73(B)(2)]</li> <li>g) Records of any waste analyses and trial tests required to be performed.</li> <li>h) Records of the inspections required under Section 265.15 [3745.65.14] (General Inspection Requirements - Subpart B).</li> <li>1) Records of any monitoring, testing or analytical data required under other Subparts as referenced by Section 265.73(b)(6). [3745-65-73(B)(6)]</li> <li>1) Records of Closure cost estimates and Post-Closure (DISPOSAL ONLY) cost</li> </ul>	a) Description and quantity of each hazardous waste treated, stored or disposed of within the facility and the date(s) and method(s) pertinent to such treatment, storage or disposal. (265.73(b)(1)) [3745-65-73(B)(1)]  b) Common name, EPA Hazardous Waste Identification Number and physical state (liquid, solid, gas) of the waste(s).  c) The estimated (or actual) weight, volume or density of the waste material(s).  d) A description of the method(s) used to treat, store or dispose of the waste(s) using the EPA Handling Codes listed in 45 FR 33252 (May 19, 1980).  e) The present physical location of each hazardous waste within the facility.  f) FOR DISPOSAL FACILITIES, the location and quantity of each hazardous waste recorded on a map of the facility and cross-references to any pertinent manifest document number(s). (265.73(b)(2)) [3745-65-73(B)(2)]  g) Records of any waste analyses and trial tests required to be performed.  h) Records of the inspections required under Section 265.15 [3745.65.14] (General Inspection Requirements - Subpart B).  1) Records of Closure cost estimates and Post-Closure (DISPOSAL ONLY) cost	a) Description and quantity of each hazardous waste treated, stored or disposed of within the facility and the date(s) and method(s) pertinent to such treatment, storage or disposal. (265.73(b)(1)) [3745-65-73(b)(1)]  b) Common name, EPA Hazardous Waste Identification Number and physical state (liquid, solid, gas) of the waste(s).  c) The estimated (or actual) weight, volume or density of the waste material(s).  d) A description of the method(s) used to treat, store or dispose of the waste(s) using the EPA Handling Codes listed in 45 FR 33252 (May 19, 1980).  e) The present physical location of each hazardous waste within the facility.  f) FOR DISPOSAL FACILITIES, the location and quantity of each hazardous waste recorded on a map of the facility and cross-references to any pertinent manifest document number(s). (265.73(b)(2)) [3745-65-73(B)(2)]  g) Records of any waste analyses and trial tests required to be performed.  h) Records of the inspections required under Section 265.15 [3745.65.14]  (General Inspection Requirements - Subpart B).  1) Records of any monitoring, testing or analytical data required under other Subparts as referenced by Section 265.73(b)(6). [3745-65-73(B)(6)]	a) Description and quantity of each hazardous waste treated, stored or disposed of within the facility and the date(s) and method(s) pertinent to such treatment, storage or disposal. (265.73(b)(1)) [3745-65-73(b)(1)] b) Common name, EPA Hazardous Waste Identification Number and physical state (liquid, solid, gas) of the waste(s). c) The estimated (or actual) weight, volume or density of the waste material(s). d) A description of the method(s) used to treat, store or dispose of the waste(s) using the EPA Handling Codes listed in 45 FR 33252 (May 19, 1980). e) The present physical location of each hazardous waste within the facility. f) FOR DISPOSAL FACILITIES, the location and quantity of each hazardous waste recorded on a map of the facility and cross-references to any pertinent manifest document number(s). (265.73(b)(2)) [3745-65-73(B)(2)] g) Records of any waste analyses and trial tests required to be performed. h) Records of the inspections required under Section 265.15 [3745.65.14] (General Inspection Requirements - Subpart B).  1) Records of any monitoring, testing or analytical data required under other Subparts as referenced by Section 265.73(b)(6). [3745-65-73(B)(6)]

•		<u>Yes</u>	Йö	<u>A/N</u>	Remark #
	The operators has submitted an annual Treatment-Storage-Disposal Operating Report (by March 1) containing all of the operating information required under Section 265.75. [3745-65-75]				# 2
ROI	E: THE FOLLOWING REQUIREMENTS ARE APPLICABLE TO ONLY OFF-SITE TREATMENT, STORAGE AN	D DISP	OSAL F	VCILII	IES.
3.	Manifests received by the facility are signed and dated; one copy is given to the transporter, one copy is sent to the generator within 30 days and one copy is kept for at least 3 years. (265.71) [3745-65-71(A)	<del></del>	✓-		#_3_
	a) If shipping papers are used in lieu of manifests (bulk shipments, etc.) the same requirements are met. (265.71(b)) [3745-65-71(B)]		$\angle$		# 3
	b) Any significant discrepancies in the manifest, as defined in Section $265.72(a)$ [3745-65-72(A)] are noted in writing on the manifest document. (265.71(a)(2)) [3745-65-71(A)(2)]		✓.		<u>**</u> 3_
4.	Any manifest discrepancies have been reconciled within 15 days as required by Section 265.72(b) or the operator has submitted the required information to the Regional Administrator/Director. [3745-65-72(B)]				# 3
5.	If the facility has accepted any unmanifested hazardous wastes from off-site sources (except from small quantity generators) for treatment, storage, or disposal an unmanifested waste report containing all the information required by Section 265.76 has been submitted to the Regional Administrator/Director within 15 days. [3745-65-76(A)]		<u> </u>		<u>#</u> 3
	REMARKS - I FACILITY DOES NOT HAVE A WRITTEN	ori	RATI	UG 1	RECURD,
	# 2 ANNUAL REPORTS HAVE NOT BEEN S				
	13 MANIFESTS ARE NOT USED				

SUBPART F: GROUND WATER MONITORING

•		(	<u>)</u>	<u>es</u>	<u>No</u>	<u>Unknown</u>	Malvea
Тур	e of	facility: (check appropriately)					
	a) b)	landf111	<del>-</del>	$\overline{\angle}$		<i>71</i>	
	c)	land treatment facility					
<u>NOT</u>	£ <u>:</u>	UNDER INTERIM STATUS STANDARDS A WASTE PILE IS NOT SUBJECT TO GROUND WASTE PILE IS REQUIREMENTS. PLEASE NOTE, HOWEVER, THAT IF ANY HAZARDOUS WE FROM A WASTE PILE IS LEFT IN PLACE AT CLOSURE, THE "WASTE PILE" BECOMES "LANDFILL" AND HUST MEET POST-CLOSURE RULES APPLICABLE TO LANDFILLS.					. /
Gro	und	Water Monitoring Program	4			,	
	Was	the ground water monitoring program reviewed prior to site visit? "No".	,	<del> </del>	<u>~</u> "	# 1	
	a)	Was the ground water program reviewed at the facility prior to site inspection?		<u> </u>	<u> </u>	#1	
2.	fac agu	a ground water monitoring program (capable of determining the illity's impact on the quality of ground water in the uppermost lifer underlying the facility) been implemented?			<u> </u>	#1	
3.	aqı mar	at least one monitoring well been installed in the uppermost ulfer hydraulically upgradient from the limit of the waste magement area? 265.91(a)(l) =[3745-65-91(A)(l)]				~/A	# 2
	a )	Are ground water samples from the uppermost aquifer, representative of background ground water quality and not affected by the facility (as ensured by proper well number, location and depths)?				~/A	#2

<u>Unknown</u> Walved

No

- 4. Have at least three monitoring wells been installed hydraulically downgradient at the limit of the waste handling or management area? 265.91(a)(2) [3745-65-91(A)(2)]
  - a) Do well number, locations and depths ensure prompt detection of any statistically significant amounts of hazardous waste or hazardous waste constituents that migrate from the waste management area to the uppermost aquifer?
- 5. Have the locations of the waste management areas been verified to conform with information in the ground water program?
  - a) If the facility contains multiple waste management components, is each component adequately monitored?
- 6. Do the numbers, locations, and depths of the ground water monitoring wells agree with the data in the ground water monitoring system program? If "No", explain discrepancies.
- 7. Well completion details. 265.91(c) [3745-65-91(C)]
  - a) Are wells properly cased?
  - b) Are wells screened (perforated) and packed where necessary to enable sampling at appropriate depths?
  - c) Are annular spaces properly sealed to prevent contamination of ground water?

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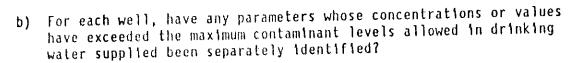
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		•	462	MO	UNKIIUWII	MUTAER
,	llas a gr 265.92(a	ound water sampling and analysis plan been developed?, ) [3745-65-92(A)]			MA	# 2
	a) Has	it been followed?	<del></del>	·		
	b) Is t	he plan kept at the facility?				
	c) Does	the plan include procedures and techniques for:				
	1)	Sample collection?		<del></del>		
	2)	Sample preservation?				
	3)	Sample shipment?		'		
	4)	Analytical procedures?	<del>w (</del>	-4 8		
	5)	Chain of custody control?	<del>10 14 MA</del>	₹000-00-11		
•	quarter	required parameters in ground water samples being tested ly for the first year? 265.92(b) [3745-65-92(B)] .92(c)(1) [3745-65-92(C)]				
	a) Are	the ground water samples analyzed for the following:				
	1)	Parameters characterizing the suitability of the ground water as a drinking water supply? 265.92(b)(1) [3745-65-92(B)(1)]				
	2)	Parameters establishing ground water quality? 265.92(b)(2) [3745-65-92(8)(2)]				
	3)	Parameters used as indicators of ground water contamination? 265.92(b)(2) [3745-65-92(B)(3)]	<del></del>	<del></del>		
	·	(1) For each indicator parameter are at least four replicate measurements obtained at each upgradient well for each sample obtained during the first year of monitoring? 265.92(c)(2) [3745-65-92(C)(2)]				\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\

			<u>Yes</u>	<u>No</u>	<u>Unknown</u>	<u>Walved</u>
	( 1	Are provisions made to calculate the initial background arithmetic mean and variance of the respective parameter concentrations or values obtained from the upgradient well(s) during the first year? 265.92(c)(2) [3745-65-92(C)(2)]			~/A	#2
b)	For f	facilities which have completed first year ground water sampling analysis requirements:			<i>5</i> -	
	1) 1	lave samples been obtained and analyzed for the ground water quality parameters at least annually? 265.92(d)(1) [3745-65-92(D)(1)]		***************************************		
		lave samples been obtained and analyzed for the indicators of ground water contamination at least semi-annually? (4 replicate neasurements per sample) 265.92(d)(2) [3745-65-92(D)(2)]		<del></del> ',		
c )	Were well	ground water surface elevations determined at each monitoring each time a sample was taken? 265.92(e) [3745-65-92(E)]		**		
d)	Were the m	ground water surface elevations evaluated annually to determine whether conitoring wells are properly placed? 265,92(f) [3745-65-92(E)]	\$ THE PARTY OF THE	\$100 economic		
e	of mo	was determined that modification of the number, location or depth intoring wells was necessary, was the system brought into compliance 265.91(a) [3745-65-91(A)]? 265.93(f) [3745-65-93(F)]	g <sub>a</sub> ga-gangganorer	<b>2</b> (2000-2000)		
		utline of a ground water quality assessment program been 2 265.93(a) [3745-65-93(Λ)]				
a)	Does	it describe a program capable of determining:				
		Thether hazardous waste or hazardous waste constituents have intered the ground water?		<u></u>		
	·2) T	he rate and extent of migration of hazardous waste or azardous waste constituents in ground water?				
		oncentrations of hazardous waste or hazardous waste onstituents in ground water?			<b>\</b>	
						V

10.

		Yes	<u>No</u>	<u>Unknuwn</u>	<u>Walved</u>
•	b) After the first year of monitoring, have at least four replicate measurements of each indicator parameter been obtained for samples taken for each well? 265.93(b) [3745-65-93(B)]			<i>A/A</i>	# 2
	1) Were the results compared with the initial background means from the upgradient well(s) determined during the first year?		\$\$\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	,.	
	(1) Was each well considered individually?				İ
	(11) Was the Student's t-test used (at the 0.01 level of significance?)	<del></del>			
	2) Was a significant increase (or pli decrease as well) found in the:				Ì
	(1) Upgradient wells (If "Yes", Compliance Checklist Λ-2 must also be completed.) [3745-65-93(C)(1)]	<del></del>	, 1 8 *		li de la companya de
	(11) Downgradient wells	<del></del>			
	If "Yes", owner or operator must obtain, split, and analyze additional samples from the wells where a significant difference was detected. If the difference is confirmed, the Director should be notified in writing within 7 days and a ground water assessment plan within 15 days. [3735-65-93(C)(2) and (D)(2)(3)]				
11.	Have records been kept of analyses for parameters in 265.92(c) and (d) [3745-65-92(C) and (D)? 265.94(a)(1) [3745-65-94(A)(1)]	<del></del>			
12.	Have records been kept of ground water surface elevations taken at the time of sampling for each well? $265.94(a)(1)$ [3745-65-94(A)(1)]		a <del>so-, -</del> -		
13.	Have records been kept of required elevations in 265.93(b) [3745-65-93(B)]? 265.94(a)(1) [3745-65-94(A)(1)]		•		!
14.	Have the following been submitted to the Director of the Ohio EPA: 265.94(a)(2) [3745-65-94(A)(2)]				
	a) Initial background concentrations of parameters listed in 265.92(b) [3745-65-92(B)] within 15 days after completing each quarterly analysis required during the first year?				



- c) Annual reports including: [3745-65-94(A)(2)]
  - Concentrations or values of parameters used as indicators of ground water contamination for each well along with required evaluations under 265.93(b) [3745-65-93(B)]?
  - 2) Any significant differences from initial background values in upgradient wells separately identified?
  - 3) Results of the evaluation of ground water surface elevations?

Comments: Subpart F

ZEMARKS - # 1 APPLICATION OF SUBPART F REQUIRES

DEVELOPMENT OF A GROUND WATER MONITORING

PROGRAM WHICH INCLUDES A SAMPLING AND ANALYSIS

PLAN , PROGRAM EVALUATION AND REPORTING REQUIRE—

MENTS THROUGHOUT THE ACTIVE LIFE OF THE FACILITY

BECAUSE THE ENVIRONMENTAL ASSESSMENT DOES NOT

FULFILL THE REGULATORY REQUIREMENTS OF SUBPART

F, THESE ITEMS WERE NOT APPLICABLE 40

THIS EVALUATION.

Walved

Unknown

Yes

Yes No NA Remark#

## Subpart G: Closure and Post-Closure

NOTE: THE FOLLOWING REQUIREMENTS ARE APPLICABLE TO BOTH DISPOSAL AND NON-DISPOSAL FACILITIES.

NOTE	<u>.</u>	THE FOLLOWING REQUIREMENTS ARE APPLICABLE TO BOTH PROPERTY			
	 . A. U	ritten Closure Plan is on file at the facility and contains the following ments: (Section 265.112) [3745-66-12]	<del></del>	<u> </u>	
		A description of how and when the facility will be closed. $(265.112(a)(1))$ $[3745-66-12(A)(1)]$	<del></del>	<u> </u>	
	b)	A description of how any of the <u>applicable</u> closure requirements in other Subparts of Section 265 [3745-66] (Tanks, Surface Impoundments, Landfill, etc.) will be carried out.		<u> </u>	
	c )	An estimate of the maximum amount of hazardous wastes being treated or in storage at the facility. (NOTE: Maximum inventory should agree with the permit.)		<u> </u>	
	d)	A description of steps taken to decontaminate facility equipment.		<u> </u>	
	e)	The year closure is expected to begin and a schedule for the various phases of closure.		<u> </u>	
2.	The in	closure Plan has been amended within 60 days in response to any changes facility design, processes or closure dates. (265.112(4)(B)) [3745-66-12(B)]	<del></del>	<u> </u>	
3.	The	closure Plan has been submitted to the Regional Administrator/Director days prior to beginning the Closure process. (265.112(4)(C)) [3745-66-12(C)]		<u> </u>	<del>#</del>

REMARKS - +1 - NO CLOSURE PLAN HAS BEEN DEVELOPED.

		<u>Yes</u>	. <u>No</u>	<u>N/A</u>	Remark #
,	Subpart II: Financial Requirements				
1.	The owner or operator of the facility has established financial assurance for closure by use of one of the following: (265.143) [3745-66-43]				# 1
	a) A closure trust fund, or	<del></del>	<u>~</u>	<del></del>	# 1
	b) A surety bond, or		<del></del>		# (
	c) A closure letter of credit, or	<del></del>	<u>×</u>		<del>生</del> (
	d) A combination of financial mechanisms.		ــــــــــــــــــــــــــــــــــــــ	, ——	
2.	A written cost estimate for closure of the facility (as specified in the closure plan) is available. How much is it?	<del></del>			# 1
3.	When was the most recent estimate made?				
4.	A written cost estimate for post closure care of the facility (if applicable) is available. How much is it?	<del></del>	<u> </u>		#   #
5.					
	REMARKS, GENERAL INTERIM STATUS REQUIREMENTS				
	REMARKS - #, NO FINANCIAL ASSURANCE HAS BEEN	1 E	STAB	LISH	CD,
	NOTE: THIS FORM DOES NOT IN	درں	() E	(IA	gree 7
	REQUIREMENTS OF YOCER	265	· (Y 7	An	10

DAC 3745-66-47.

			<u>Yes</u>	. <u>No</u>	NVV	Remark #
		Subpart N: Landfills				
1.	Ge	neral Operating Requirements. Does the facility provide the following:				
<u>NO.</u>	<u>E</u> :	la, 16 AND 1c ARE EFFECTIVE ON NOVEMBER 19, 1981.				<i>je</i> .1
	a)	Diversion of run-on away from active portions of the fill? $(265.302(a))$ $[3745-68-02(A)]$		<u> </u>	, 	#
	b)	Collection of run-off from active portions of the fill? (265.302(b)) [3745-68-02(B)]				<u># (</u>
	c)	Is collected run-off treated? [3745-68-02(B)]			. <del></del>	<u>#</u>
	d)	Control of wind dispersal of hazardous waste? (265.302(d)) [3745-68-02(D)]		<u> </u>	<del></del>	
2.	Su	rveying and Recordkeeping. Does the operating record include: [3745-68-09]				
	a)	a map showing the exact location and dimensions of each cell? (269.309(a)) $[3745-68-09(\Lambda)]$		<u> </u>		± 1
	b)	The contents of each cell and the location of each hazardous waste type within each cell? (269.309(b) [3745-68-09(B)]		X		# 1
3.	Clo	osure and Post-Closure				
	a)	Is the closure Plan available for inspection?		~		# 2
	b)	Has this plan been submitted to the Regional Administrator?	<del></del>	~		# 2
	<b>c</b> )	Has Closure begun?		$\leq$		# 2
	d)	Is Closure cost estimate available by?		<u> </u>	Black-on-tracting	# 2
	1	REMARKS - # 1 OPERATING REQUIREMENTS INCLUDE	SPEC	FIC	D	516N1,
		CONSTRUCTION, OPERATION AND MAIN FOR RUN-OFF AND RUN-ON CON CUIND ONP LANDFILLS - 1	UTRUL			RIA
<b>t</b>		# Z - NO CLUSURE PLANS DEVECOPED			Revis	ed 12/84
		4. 3 - A DRUM WAS OBSERVED IN WASTE M.	ATERIN	12		

		Yes	. <u>Ho</u>	ΝΔV	Remark #
4 ,	Special requirements for ignitable or reactive waste. (265.312(a)(B)				
	a) Are tynitable or reactive waste treated so the resulting mixture is no longer ignitable or reactive?		ghap sampstones	$ \sqrt{} $	
<u> 101</u>	E: IF WASTE IS RENDERED NON-REACTIVE OR NON-IGNITABLE, SEE TREATMENT REQUIREMENTS.  IF NOT, THE PROVISIONS OF 40 CFR 265.17(b) APPLY. [3745=65=17]				
5.	Special requirements for Incompatible Wastes.				
	a) Does the owner or operator dispose of incompatible wastes in separate cells? If not, the provisions of 40 CFR 265.17(b) apply. [3745-65-17]		;	_	
6.	Special requirements for Containers:	ı	48.		
	Are empty containers crushed flat, shredded, or similarly reduced in volume before being buried beneath the surface of the landfill? (265.315) [3745-57-85]		_		#3
7.	Special requirements for Liquid Waste.				
	Bulk or non-containerized liquid waste or waste containing free liquids is placed in a landfill having a liner and leachate collection and removal system meeting 264.301(a) requirements or is treated so that free liquids are no longer present. (265.314(a)) [3745-68-14(A)]		<u> </u>		
8.	A written Post-Closure Plan is on file at the facility.		$\checkmark$		# 2
9.	The Post-Closure Plan has been amended within 60 days in response to any changes in facility design or operation. (265.118(b))		<u> </u>	<del></del>	# 2
10.	The Post-Closure Plan has been submitted to the Regional Administrator/Director 180 days prior to beginning Closure. (265.118(c))		$\checkmark$	<del></del>	# 2
11.	The property owner has attached a notation to the property deed or other instrument which will notify any potential purchaser that the property has been used to manage hazardous waste and future use of the property is restricted under Section 265.117(c) [3745-66-17(C)] as required in Section 265.120 [3745-66-10].		<u>~</u>	•	

LANDFILLS - 2

- Has the facility submitted a Part A to Ohio?
- If "yes", is it complete and accurate?
- Has the facility submitted a Part B?
- Was advance notice of the inspection given? If so, how far in advance? IF THE SITE HAS RECEIVED A PART B PERMIT, USE THE RCRA STATUS INSPECTION FORM.

Remark # NVA Yes

REMARKS, GENERAL INFORMATION Include a brief description of site activity and waste handling.

ID NUMBER WAS OBTAINED REMARK #1 BY US EPA FOR TRACKING PURPOSES. ASE HAS NOT APPLIED FOR FOR FO NUMBER FOR THIS PRODUCTION FACILITY.

SITE DESCRIPTION - AST IS A STELL CASTING FACILITY WHICH MANUFACTURES EQUIPMENT FOR THE RAILROAD INDUSTRY. STELL SURAP IS USED EXCLUSIVELY IN THE SAND CASTING OPERATIONS. ELECTRIC ARC FURNACE OUST 15 COLLECTED IN A BAGNOUSE AND THEN TRANSFERRED INTO DRUMS. PRIOR TO MAY, 1467 THIS WASTE (0006, 0008) WAS MIXED WITH CLARIFIER JLUDGE AND DISPUSEDINFORMATION - PRESENTLY THIS MATERIAREVISED 12/84 155 -5178 .

40	CFR 262 (OAC 3745-52) GENERATOR REQUIREMENTS			<del></del>		
(		<u>Y</u>	<u>e s</u>	No	N/A	Remark #
1.	The hazardous waste(s) generated at this facility have been tested or are acknowledged to be hazardous waste(s) as defined in Section 261 and in compliance with the requirements of Sections 262.11. [3745-52-11(D)]	_		<u>√</u>		<u>#</u>
2.	Does this facility generate any hazardous wastes that are excluded from regulation under Section 261.4 [3745-51-04] (statutory exclusions) or Section 261.6 [3745-51-06(A)(1)] (recycle/reuse)?	-		_	<del>ger e vidade</del> (2007)	<u> </u>
3.	and the second of waste treatment equipment that is exclude	<i>i i</i>		$\checkmark$	***************************************	
4.	The generator meets the following requirements with respect to the preparuse and retention of the hazardous waste manifest:	ation,				
	a) The manifest form used contains all of the information required by Se 262.21(a) and (b) [3745-52-21] and the minimum number of copies requisection 262.22 [3745-52-22].	ection ired by	<del></del>	<u> </u>		# 2
	b) The generator has designated at least one permitted disposal facility has/will designate an alternate facility or instructions to return wa compliance with Section 262.20 [3745-52-20(B)(C)(D)].	y and aste in -	*	<u> </u>		# 2
	c) Prepared manifests have been signed by the generator and initial tran in compliance with Section 262.23 [3745-52-23(Λ)(1 and 2)].	nsporter -		_/	**************************************	世 2
	d) The generator has complied with manifest exception reporting requirem (investigate after 35 days, report after 45 days) in Section 262.42(a [3745-52-42].	ments a)(b)		<u> </u>		# 2
	e) Signed copies of all hazardous waste manifests and any documentation for Exception Reports are retained for at least 3 years as required be Section 262.40 [3745-52-40]. (262.40(a)) [3745-52-40(a)]	required by		<u> </u>		# 2

- 5. The generator meads the following hazardous waste pre-transport requirements:
  - a) Prior to offering hazardous wastes for transport off-site the waste material is packaged, labeled and marked in accord with applicable DOI regulations (Section 262.30, 262.31 and 262.32(a)) [3745-52-30, 3745-52-31, 3745-52-32]
  - b) Prior to offering hazardous wastes for transport off-site each container with a capacity of 110 gallons (416 liters) or less is affixed with a completed hazardous waste label as required by Section 262.32(b) [3745-52-32].
  - c) The generator meets requirements for properly placarding or offering to properly placard the initial transporter of the waste material in compliance with Section 262.33 [3745-52-33].
- 6. Hazardous wastes imported from or exported to foreign countries are handled in accordance with the requirements of Section 262.50 [3745-52-50]
- 7. If the generator elects to store hazardous waste on-site in <u>containers</u> or <u>tanks</u> for <u>90 days</u> or less without a RCRA storage permit as provided under Section 262.34 [3745-52-34], the following requirements with respect to such storage are met:
  - a) The containers are clearly marked with the words "Hazardous Waste".
  - b) The date that accumulation began is clearly marked on each container.
- 8. The generator has provided a Personnel Training Program in compliance with Section 265.16(a)(b)(c) [3745-65-16(A)(B)(C)] including instruction in safe equipment operation and emergency response procedures, training new employees within 6 months and providing an annual training program refresher course. (Section 262.34) [3745-52-34(A)(4)]
- 9. The generator keeps all of the records required by Section 265.16(d)(e) [3745-65-16(D)(E)] including written job titles, job descriptions and documented employee training records (Section 262.34) [3745-52-34(A)(4)].

<u>Yes No N/A Remar</u>	<u>&lt;_#</u>
-------------------------	---------------

265 [3745-65], SUBTARTS CARD D (PREPAREDNESS AND PREVENTION PLUS CONTINGENCY AND EMERGENCY) AND CERTAIN PORTIONS OF THE "CONTAINERS" AND "TANKS" RULES DL MET. COMPLETE THE APPROPRIATE SECTIONS OF THE SHORT-TERM STORAGE FOR 90 DAYS OR LESS IN TANKS AND CONTAINERS ALSO REQUIRES THAT REGULATIONS IN SECTION

INSPECTION FORM.

REMARKS, GUILRALOR REQUIREMENTS

ANO ACKNOWIEDGED TO BE INVENTIOUS BY EP TOXICITY CRITERIA FOR LIAD (DOUR) HAID HOWEVER, GRINDING SLUDGE HAS NOT 2057 MS WILLY TESTED CADMIUM (DOGG).

CHRRATIRIZED

MAINTAINED, WERE NEVER PREPARIO OR PLACAROCO WERE NOT SHIPMENTS 11.421 F 8575

PERSONS DESPONSIBLE FOR HAZARDOUS WASTE MANAGEMENT. REGULATORY REQUIREMENTS FOR THESE ITEMS ARE SPECIFIC 142

BUNSATH BAGHOUSE CA SING DUST VARON FOLLOWING PAGE - X20 2438

GENERATOR

		<u>Yes</u>	<u>No</u>	<u>N/A</u>		
•	Subpart C: Preparedness and Prevention					
ı,	Has there been a fire, explosion or non-planned release of hazardous waste at this facility? (265.31) [3745-65-31]				#	
•	If required due to actual hazards associated with the waste material, the facility has the following equipment: $(265.32)$ [3745-65-32(A)(B)(C)(D)]					
	a) Internal alarm system.	/	<del></del>	~		
	b) Access to telephone, radio or other device for summoning emergency assistance.	$\checkmark$				
	c) Portable fire control equipment.					<del></del>
	d) Water of adequate volume and pressure via hoses sprinkler, feamers or sprayers.				<u>,</u>	
٠	All required safety, fire and communications equipment is tested and maintained as necessary; testing and maintenance are documented. (265.33) [3745-65-33]	**************************************	<u> </u>		*	
,	If required due to the actual hazards associated with the waste material, personnel have immediate access to an emergency communication device during times when hazardous waste is being physically handled. (265.34) [3745-65-34]	<u> </u>		·		<u>-</u>
•	If required due to the actual hazards associated with the waste material, adequate aisle space to allow unobstructed movement or emergency or spill control equipment is maintained. (265.35) [3745-65-35]		<u> </u>		OCCUPANTACION OF STATE OF STAT	<u></u> 378
•	If required due to the actual hazards associated with the waste material, the facility has attempted to make appropriate arrangements with local emergency service authorities to familiarize them with the possible hazards and the facility layout. (265.37(a)) [3745-65-37(A)]		<del>س</del> ــــ	<u> </u>		<del></del>
	Where state or local emergency service authorities have declined to enter into any proposed special arrangements or agreements the refusal has been documented. (265.37(b)) [3745-65-37(B)]	<del></del>		<u> </u>		<del></del>

		<u>Yes</u>	<u>No</u>	й\V	Remark #
•	Subpart D: Contingency and Emergency				
1.	The facility has a written Contingency Plan designed to minimize hazards from fire, explosions or unplanned releases of hazardous wastes (265.51) [3745-65-52( $\Lambda$ )(B)(C)(D)(E)] and contains the following components:		/		ASF MAS NOT DEVELOPED A CONTINGENCY PLAN
	a) Actions to be taken by personnel in the event of an emergency incident.	<del></del>	<u> </u>		PLATA
	b) Arrangements or agreements with local or state emergency authorities.	<u></u>			
	c) Names, addresses and telephone numbers of all persons qualified to act as emergency coordinator.		✓:		
	d) A list of all emergency equipment including location, physical description and outline of capabilities.		1		
	e) If required due to the actual hazards associated with the waste(s) handled, an evacuation plan for facility personnel. (265.51(f)) [3745-65-52(F)]		_		)
2.	A copy of the Contingency Plan and any plan revisions is maintained on-site and heen submitted to all local and state emergency service authorities that might be required to participate in the execution of the plan. (265.53) [3745-65-53(A)(B	as )]	<u> </u>	<del></del>	
3.	The plan is revised in response to facility, equipment and personnel changes or failure of the plan. (265.54) [3745-65-54]			, ,,,	
4.	An emergency coordinator is designated at all times (on-site or on-call) is familiar with all aspects of site operation and emergency procedures and has the authority to implement all aspects of the Contingency Plan. (265.56) [3745-65-55]		<u> </u>	, 	
5.	If an emergency situation has occurred, the emergency coordinator has implemented all or part of the Contingency Plan and has taken all of the actions and made all of the notifications deemed necessary under Sections 265.56(a-j). [3745-65-56(A-	<b>i</b> 	<u> </u>		

## Subpart I: Management of Containers

,	,	<u>Yes</u>	<u>Ho</u>	N/V	Rem
1,	Hazardous wastes are stored in containers which are:				
	a) Closed (265.173) [3745-66-73(A)]				
	b) In good physical condition (265.171) [3745-66-71]	<u>~</u> /			Charles and the second
	c) Compatible with the wastes stored in them (265.172) [3745-66-72]	. Y	province and the second	8000-10	
2.	Containers are stored closed except when it is necessary to add or remove wastes. (265.173(a)) [3745-66-73(A)]	<u></u>	$ \sqrt{} $	.—	SPILLAGE Y
	Hazardous waste containers are stored, handled and opened in a manner which prevents container rupture or leakage. (265.173(b)) [3745-66-73(B)]	_		:	ENIDENT GROUND
	The area where containers are stored is inspected for evidence of leaks or corrosion at least weekly and such inspections are documented. (265.174) [3745-66-74]	n ——	_	<del></del>	
	Containers holding Ignitable or Reactive waste(s) are located at least 50 feet (15 meters) from the property line and the general requirements for handling such wastes in Section 265.17 (physical separation, signs and safety) are met (265.176) [3745-66-76]			$\leq$	j ])**
6.	Containers holding hazardous wastes are stored separate from other materials which may interact with the waste in a hazardous manner. (265.177(c)) [3745-66-77(C)]	: 	<del></del>		/

	HWFAB # /SEE
	U.S. EPA I.D. # OHD 981909418 REMA
GENERAL INFORMATION  Facility: American Steel Followies Address: 1001 E. Broadway  Tan Code: 44601 County: STARK	City: Acciance Telephone: 216/823-6650
INSPECTION PARTICIPANT(S)  (Name)  (Name)  1. DAVID E. STATLER WORKS ENGINEER  (Name)  1. DAVID E. STATLER WORKS ENGINEER  (Name)	(Telephone)  216/823-6/50  216/823-6/50
1. KEVIN M. BONZO SNYIRONMENTAL SCIENTIST	216/425-9171 216/425-9171
INSTALLATION ACTIVITY  If the site is a TSDF, check the boxes indicating	,
Mark One  Mark One  General Facility Standards, Preparedness  General Facility Standards, Preparedness	/_/ Waste Piles 500
/ / Transporter (T) Manifests/Records/Reporting/	/_/ Landfills D80
/ TSDF only / Containers SO1	/ / Chemical/Physical/ Biological TO4
/ / Surface Impoundments S04/T02	/_/ Groundwater Monitoring
/_/ G-TSDF /_/ Incineration/Thermal Treatment /_/ T-TSDF	/_/ Post-Closure
/_/ G-T-TSDF	
INFORMATION - 1	Rev1-1 12/84

- 1. Has the facility submitted a Part A to Ohio?
- 2. If "yes", is it complete and accurate?
- Has the facility submitted a Part B?
- 4. Was advance notice of the inspection given? If so, how far in advance?

  IF THE SITE HAS RECEIVED A PART B PERMIT, USE THE RCRA STATUS INSPECTION FORM.

Yes No N/A Remark #

REMARKS, GENERAL INFORMATION

Include a brief description of site activity and waste handling.

REMARK #1 - US EPA ID NUMBER WAS OBTAINED

BY US EPA FOR TRACKING PURPOSES.

ASF HAS NOT APPLIED FOR ID NUMBER

FOR THIS PRODUCTION FACILITY.

SITE DESCRIPTION - AST IS A STEEL CASTING FACILITY WHICH

MANUFACTURES EQUIPMENT FOR THE RAILROAD INDUSTRY.

STEEL SCRAP IS USED EXCLUSIVELY IN THE SAND CASTING OPERATIONS.

ELECTRIC ARC FURNACE DUST IS COLLECTED IN A BAGNOUSE

AND THEN TRANSFERRED INTO DRUMS. PRIOR TO MAY, 1987

THIS WASTE (DOOG, DOOR) WAS MIXED WITH CLARIFIER

SLUDGE AND DISPOSEDINFORMATION - PRESENTLY THIS MATERIREVISED 12/84

15 USED TO RECHARGE URNACE.

40	CFR	262	(OAC	3745-52)	GENERATOR	REQUIREMENTS
----	-----	-----	------	----------	-----------	--------------

- 1. The hazardous waste(s) generated at this facility have been tested or are acknowledged to be hazardous waste(s) as defined in Section 261 and in compliance with the requirements of Sections 262.11. [3745-52-11(D)]
- Does this facility generate any hazardous wastes that are excluded from regulation under Section 261.4 [3745-51-04] (statutory exclusions) or Section 261.6 [3745-51-06(A)(1)] (recycle/reuse)?
- 3. Does this facility have waste or waste treatment equipment that is excluded from regulation because of totally enclosed treatment (Section 265.1(c)(9)) [3745-65-01] or via operation of an elementary neutralization unit and/or wastewater treatment unit (Section 265.1(c)(10) [3745-65-01]
- 4. The generator meets the following requirements with respect to the preparation, use and retention of the hazardous waste manifest:
  - a) The manifest form used contains all of the information required by Section 262.21(a) and (b) [3745-52-21] and the minimum number of copies required by Section 262.22 [3745-52-22].
  - b) The generator has designated at least one permitted disposal facility and has/will designate an alternate facility or instructions to return waste in compliance with Section 262.20 [3745-52-20(B)(C)(D)].
  - c) Prepared manifests have been signed by the generator and initial transporter in compliance with Section 262.23 [3745-52-23(A)(1 and 2)].
  - d) The generator has complied with manifest exception reporting requirements (investigate after 35 days, report after 45 days) in Section 262.42(a)(b) [3745-52-42].
  - e) Signed copies of all hazardous waste manifests and any documentation required for Exception Reports are retained for at least 3 years as required by Section 262.40 [3745-52-40]. (262.40(a)) [3745-52-40(a)]

#### Yes No N/A Remark#

- \_ \_ \_ \_
- \_\_\_\_\_
  - 1 # 2
- · / #2
- / ± 2
- / # 2-
- / # 7-

- 5. The generator mea's the following hazardous waste pre-transport requirements:
  - a) Prior to offering hazardous wastes for transport off-site the waste material is packaged, labeled and marked in accord with applicable DOT regulations (Section 262.30, 262.31 and 262.32(a)) [3745-52-30, 3745-52-31, 3745-52-32]
  - b) Prior to offering hazardous wastes for transport off-site each container with a capacity of 110 gallons (416 liters) or less is affixed with a completed hazardous waste label as required by Section 262.32(b) [3745-52-32].
  - c) The generator meets requirements for properly placarding or offering to properly placard the initial transporter of the waste material in compliance with Section 262.33 [3745-52-33].
- 6. Hazardous wastes imported from or exported to foreign countries are handled in accordance with the requirements of Section 262.50 [3745-52-50]
- 7. If the generator elects to store hazardous waste on-site in <u>containers</u> or <u>tanks</u> for <u>90 days</u> or less without a RCRA storage permit as provided under <u>Section 262.34 [3745-52-34]</u>, the following requirements with respect to such storage are met:
  - a) The containers are clearly marked with the words "Hazardous Waste".
  - b) The date that accumulation began is clearly marked on each container.
- 8. The generator has provided a Personnel Training Program in compliance with Section 265.16(a)(b)(c) [3745-65-16(A)(B)(C)] including instruction in safe equipment operation and emergency response procedures, training new employees within 6 months and providing an annual training program refresher course. (Section 262.34) [3745-52-34(A)(4)]
- 9. The generator keeps all of the records required by Section 265.16(d)(e) [3745-65-16(D)(E)] including written job titles, job descriptions and documented employee training records (Section 262.34) [3745-52-34(A)(4)].

<u>Yes</u>	<u>No</u>	<u>N/A</u>	Remark #

SHORT-TERM STORAGE FOR 90 DAYS OR LESS IN TANKS AND CONTAINERS ALSO REQUIRES THAT REGULATIONS IN SECTION 265 [3745-65], SUBPARTS C AND D (PREPAREDNESS AND PREVENTION PLUS CONTINGENCY AND EMERGENCY) AND CERTAIN PORTIONS OF THE "CONTAINERS" AND "TANKS" RULES BE MET. COMPLETE THE APPROPRIATE SECTIONS OF THE NOTE: INSPECTION FORM.

## REMARKS, GENERATOR REQUIREMENTS

# 1 - ELECTRIC ARC FURNACE DUST HAS BEEN TESTED AND ACKNOWLEDGED TO BE HAZARDOUS BY EP TOXICITY CRITERIA FOR LEAD (DUCE) AND CADMIUM (DOGG). HOWEVER, GRINDING SLUDGE HAS NOT BEEN CHARACTERIZED

# 3 - MANIFESTS WERE NEVER PREPARED OR MAINTAINED, SHIPMENTS WERE NOT PLACARDED

I'Y - THE REGULATORY REQUIREMENTS FOR THESE ITEMS ARE SPECIFIC TO PERSONS RESPONSIBLE FOR HAZARDOUS WASTE MANAGEMENT. #5 - RECEASE OF EAF DUST BENEATH BAGHOUSE

(FROM TOCLOWING PAGE)

		<u>Yes</u>	<u>No</u>	<u>N/A</u>	Remark #	
•	Subpart C: Preparedness and Prevention					
	Has there been a fire, explosion or non-planned release of hazardous waste at this facility? (265.31) [3745-65-31]				#5	
	If required due to actual hazards associated with the waste material, the facility has the following equipment: $(265.32)$ [3745-65-32(A)(B)(C)(D)]			/		
	a) Internal alarm system.		<del></del>	<u>·</u>		
	b) Access to telephone, radio or other device for summoning emergency assistance.	$\sqrt{}$				
	c) Portable fire control equipment.					
	d) Water of adequate volume and pressure via hoses sprinkler, foamers or sprayers.			$\angle$		
	All required safety, fire and communications equipment is tested and maintained as necessary; testing and maintenance are documented. (265.33) [3745-65-33]		<u> </u>			
	If required due to the actual hazards associated with the waste material, personnel have immediate access to an emergency communication device during times when hazardous waste is being physically handled. (265.34) [3745-65-34]	<u> </u>			·.	
i <b>.</b>	If required due to the actual hazards associated with the waste material, adequate aisle space to allow unobstructed movement or emergency or spill control equipment is maintained. (265.35) [3745-65-35]		<u> </u>	, 		
	If required due to the actual hazards associated with the waste material, the facility has attempted to make appropriate arrangements with local emergency service authorities to familiarize them with the possible hazards and the facility layout. (265.37(a)) [3745-65-37(A)]			$\checkmark$		
١.	Where state or local emergency service authorities have declined to enter into any proposed special arrangements or agreements the refusal has been documented. (265.37(b)) [3745-65-37(B)]			$\leq$		: .

			Yes	. <u>No</u>	Ν <u>/V</u>	<u>Remark #</u>
•		Subpart D: Contingency and Emergency				. •
	C 4	facility has a written Contingency Plan designed to minimize hazards from e, explosions or unplanned releases of hazardous wastes (265.51) 45-65-52(A)(B)(C)(D)(E)] and contains the following components:		/		ASF HAS NOT DEVLLOPED A CONTINGENCE
	a)	Actions to be taken by personnel in the event of an emergency incident.		<u>~</u> ,		PLAN
	b)	Arrangements or agreements with local or state emergency authorities.	<del></del>			
	c)	Names, addresses and telephone numbers of all persons qualified to act as emergency coordinator.		<u> </u>	<u></u> -	<u></u>
	d)	A list of all emergency equipment including location, physical description and outline of capabilities.			• • • • • • • • • • • • • • • • • • •	<u> </u>
	e)	If required due to the actual hazards associated with the waste(s) handled, an evacuation plan for facility personnel. (265.51(f)) [3745-65-52(F)]				. :
2.		opy of the Contingency Plan and any plan revisions is maintained on-site and has n submitted to all local and state emergency service authorities that might be puired to participate in the execution of the plan. (265.53) [3745-65-53(A)(B)		$\checkmark$		1 4 s. 1 d. 2 d.
3.	The or	e plan is revised in response to facility, equipment and personnel changes failure of the plan. (265.54) [3745-65-54]			<del></del>	
4.		emergency coordinator is designated at all times (on-site or on-call) is miliar with all aspects of site operation and emergency procedures and has the thority to implement all aspects of the Contingency Plan. (265.56) [3745-65-55]	-		o <u>o </u>	
5.		an emergency situation has occurred, the emergency coordinator has implemented I or part of the Contingency Plan and has taken all of the actions and made all the notifications deemed necessary under Sections 265.56(a-j). [3745-65-56(A-J	)	<u> </u>		

## Subpart I: Management of Containers

•		<u>Yes</u>	<u>No</u>	N/A	Remark #
1.	Hazardous wastes are stored in containers which are:				: :
	a) Closed (265.173) [3745-66-73(A)]		<u>~</u>	<del></del>	
	b) In good physical condition (265.171) [3745-66-71]	<u>~</u>	, <del>-</del>		
	c) Compatible with the wastes stored in them (265.172) [3745-66-72]			<del></del> -	
2.	Containers are stored closed except when it is necessary to add or remove wastes. (265.173(a)) [3745-66-73(A)]		$ \sqrt{} $	<del></del>	SPILLA GE
	Hazardous waste containers are stored, handled and opened in a manner which prevents container rupture or leakage. (265.173(b)) [3745-66-73(B)]	<u> </u>	· · · · · · · · · · · · · · · · · · ·		ENIBENT GROWN
4.	The area where containers are stored is inspected for evidence of leaks or corrosto at least weekly and such inspections are documented. (265.174) [3745-66-74]	n ——			
	Containers holding Ignitable or Reactive waste(s) are located at least 50 feet (15 meters) from the property line and the general requirements for handling such wastes in Section 265.17 (physical separation, signs and safety) are met (265.176) [3745-66-76]			<u> </u>	
6.	Containers holding hazardous wastes are stored separate from other materials which may interact with the waste in a hazardous manner. (265.177(c)) [3745-66-77(C)]	<u></u>	<del></del>		

•		HWFAB #
		U.S. EPA I.D. # OHD 017 497587
		CITY: SEBRING TWP.
GENERAL INFORMATION	Founders Address: LAKE PARK BEVO. AT HEACO County: MAHONING Tele	CK - CISPIPALS.
FREATHER CON STELL	Founders Address: LARETTIME MAHONING Tele	ephone: NO TELEPHONE
7'	To Code:County:COUNTY:	
State: OHIO	INSPECTION PARTICIPANT(S)	(Telephone)
/N-ma\	(Title)	216/823-6150
(Name)	WORKS ENGINEER	
1. DAVIDE, STA	Ma During AND SNUIR ONMENTAL HI	CPHIN 1
2. CHARKES A. KI	IVD / JAK	
3.	INSPECTOR(S)	10171
	INSPECTOR(S)  INSPECTOR(S)  ENVIRONMENTAL SCIENTIST	216/423-4
1. KEVIN M. BON	MAN ENVIRONMENTAL SCIENTIST	216/423-4111
1 -1211156	MAN SNVIRONIMENTER	
<u> </u>		
3.	INSTALLATION ACTIVITY	hich areas were reviewed.
	INSTALLATION ACTIVITY  If the site is a TSDF, check the boxes indicating w	503
Mark One	proparedness	/_/ Waste Piles SO3
/ / Generator only (G)	General Facility Standards, Preparedness and Prevention, Contingency and Emergency and Prevention, Closure	/ / Land Treatment D81
/ Generator only (a)	and Prevention, Contingency and Manifests/Records/Reporting, Closure	<del></del>
/ / Transporter (T)		Landfills D80
<u></u>	/_/ Containers SO1	/ / Chemical/Physical/
TSDF only	/ / Tanks S02/T01	Biological TO4
/ / G-T		Groundwater Monitoring
·	/ / Surface Impoundments S04/T02	Groundwater Homes
/_/ G-TSDF	/ / Incineration/Thermal Treatment	/ / Post-Closure
/ / T-TSDF	/ Inclineraction, the	
/_/ G-T-TSDF		
	INFORMATION - 1	Rev1 4 12/84

- Has the facility submitted a Part A to Ohio?
- If "yes", is it complete and accurate?
- Has the facility submitted a Part B?
- 4. Was advance notice of the inspection given? If so, how far in advance? IF THE SITE HAS RECEIVED A PART B PERMIT, USE THE RCRA STATUS INSPECTION FORM.

Yes	No	N/A	Remark #
$\checkmark$			
			VS MKS

REMARKS, GENERAL INFORMATION Include a brief description of site activity and waste handling.

REMARK 1 - PART A SUBMITTED TO US ERA AND DEPA. WITHDRAWL BY USEPA EFFECTIVE 19 APRIL 1983. ON 19 NOW. 1984, DEPA INSPECTED THIS FACILITY TO YERIFY REQUEST FOR WITHDRAWL OF PART A. PART A WITHDRAW LETTER EUBINITTED BY AST TO GEPA ON 16 JULY 1981:

SITE DESCRIPTION - THIS DISPOSAL SITE IS OWNED BY ASF AND WAS FORMERLY A COAL STRIP MINE GATER MINED FUR CLAY. AST HAS OPERATED THIS 12. 5 ACRE SITE FOR DISPOSAL OF FOUNDRY SAND, SCAG, SLUDGE AND EAF INFORMATION - 2 EMISSION CONTROL DUSTINED 12/84

RCRA INTERIM STATUS INSPECTION FORM				
40 CFR 265 (OAC 3745-65-et seq.) GENERAL INTERIM STATUS REQUIREMENTS AND TSD REQUIREMENT	Yes	No	N/A	Remark #
Subpart B: General Facility Standards				
1. The operator has a detailed chemical and physical analysis of the waste material containing all of the information which must be known to properly treat or store the waste as required by Section 265.13(a) [3745-65-13(A)(1)]	<u> </u>		<u> </u>	
2. The operator has a written waste analysis plan which describes analytical parameters, test methods, sampling methods, testing frequency and responses to any process changes that may affect the character of the waste.  (Section 265.13(b)) [3745-65-13(B)]		$\leq$	·	# 1
<ol> <li>a) Would physical contact with the waste structures or equipment injure unknowing/unauthorized persons or livestock entering the facility? (265.14(a)(1)) [3745-65-14(A)(1)]</li> </ol>	$\checkmark$		<u></u>	
b) Would disturbance of the waste cause a violation of the hazardous waste regulations? (265.14(a)(2)) [3745-65-14(A)(2)]	$\checkmark$			
IF BOTH 3a AND 3b ARE "NO", MARK QUESTIONS 4 AND 5 "NOT APPLICABLE".				
4. The facility has -		V	/	
a) A 24-hour surveillance system, <u>or</u>				非
b) An artificial or natural barrier <u>and</u> a means to control entry at all times (265.14(b)(2)). [3745-65-14(B)(2)(a and b)]		. <u>`</u>		2
5. The facility has a sign "Danger-Unauthorized Personnel Keep Out" at each entrance to the active portion of the facility and at other locations as necessary. (265-14(c)) [3745-65-14(C)]		<u> </u>		
REMARKS - # 1 NO WASTE ANALYSIS PLAN DEVE # Z ACCESSIBLE FROM WEST, SOUTH, SO GENERAL FACILITY STANDARDS - 1 HEACO	LOPEL UTHER CR F	0 187 RD.	<i>≺ı,A</i> Re	vised 12/84

		<u>Yes</u>	<u>No</u>	<u>N/A</u>	Remark #
6.	a) The operator has developed and followed a comprehensive, written inspection plan and documented the inspections, malfunctions and any remedial actions taken in an operating record log which is kept for at least three years.  (265.15) [3745-65-15]		$\checkmark$		# 3_
	b) Areas subject to spills (i.e., loading and unloading areas, container storage areas, etc.) are inspected daily when in use and according to other applicable regulations when not actively in use. (265.15(b)(4)) [3745-65-15(B)(4)]		$\leq$		
7.	The facility has provided a Personnel Training Program in compliance with Section 265.16(a)(b)(c) including instruction in safe equipment operation and emergency response procedures, training new employees within 6 months and providing an annual training program refresher course. [3745-65-16(A)(B)(C)]		<u> </u>		#4
8.	The facility keeps all records required by Section 265.16(d)(e) including written job titles, job descriptions and documented employee training records. [3745-65-16(D)(E)]		<u>~</u>		#4
9.	If required due to the actual hazards associated with Ignitable, Reactive or incompatible waste materials, the facility meets the following requirements: (Section 265.17) [3745-65-17]			,	
	a) Protection from sources of ignition.	<u></u>	<del></del>		,
	b) Physical separation of incompatible waste materials.				<u> </u>
	c) "No Smoking" or "No Open Flames" signs near areas where Ignitable or Reactive wastes are handled.		<u></u>	_	
	d) Any comingling of waste materials is done in a controlled, safe manner as prescribed by Section 265.17(b). [3745-65-17(B)]				<u> </u>
	REMARKS- # 3 NO INSPECTION PLAN DEVELOPED # 4 NO PERSONNEL TRAINING SPECIFIC	TO	HA	ZARC	0045

WASTE MANAGEMENT

		<u>Yes</u>	<u>No</u>	<u>N/A</u>	Remark #
•	Subpart C: Preparedness and Prevention				
	Has there been a fire, explosion or non-planned release of hazardous waste at this facility? (265.31) [3745-65-31]				
2.	If required due to actual hazards associated with the waste material, the facility has the following equipment: $(265.32)$ [3745-65-32(A)(B)(C)(D)]				
	a) Internal alarm system.	_ <del>`</del>			#
	b) Access to telephone, radio or other device for summoning emergency assistance.	<del></del>	$\angle$		
	c) Portable fire control equipment.		<del></del>		
	d) Water of adequate volume and pressure via hoses sprinkler, foamers or sprayers.			$\leq$	
3.	All required safety, fire and communications equipment is tested and maintained as necessary; testing and maintenance are documented. (265.33) [3745-65-33]	<u> </u>	<u> </u>		<del>at</del> 1
4.	If required due to the actual hazards associated with the waste material, personnel have immediate access to an emergency communication device during times when hazardous waste is being physically handled. (265.34) [3745-65-34]	<u>\</u>			#2
5.	If required due to the actual hazards associated with the waste material, adequate aisle space to allow unobstructed movement or emergency or spill control equipment is maintained. (265.35) [3745-65-35]			<u> </u>	
5.	If required due to the actual hazards associated with the waste material, the facility has attempted to make appropriate arrangements with local emergency service authorities to familiarize them with the possible hazards and the facility layout. (265.37(a)) [3745-65-37(A)]	<del></del>		<u> </u>	# 3
7.	Where state or local emergency service authorities have declined to enter into any proposed special arrangements or agreements the refusal has been documented. (265.37(b)) [3745-65-37(B)]			_	
•	REMARKS - # 1 REGURES COMMUNICATION DEVICE BE IM  AT THE SCENE OF OPERATIONS. NO PHONE  PREPAREDNESS AND PREVENTION - 1 PURING  # Z TRUCKS EQUIPPED WITH RADIOS  # 3 MATERIAL IS NOT IGNITIBLE OR REAC	WAS	jni	14161+ 14007	746

				<u>Yes</u>	<u>No</u>	$\overline{N \backslash V}$	Remark #	
		Subpart D: Contingency and Emergency						
•	C 4	facility has a written Contingency Plan designed to minimize hazards, explosions or unplanned releases of hazardous wastes (265.51) 5-65-52(A)(B)(C)(D)(E)] and contains the following components:	from				er mode a	
	a) /	Actions to be taken by personnel in the event of an emergency inciden	t.		<u> </u>		At .	
	b) /	Arrangements or agreements with local or state emergency authorities.			$\overline{\checkmark}$			
	c) i	Names, addresses and telephone numbers of all persons qualified to ac emergency coordinator.	t as	<u> </u>	<u>~</u> ;		# 1	
	d) ,	A list of all emergency equipment including location, physical descri	ption				#	
	e)	If required due to the actual hazards associated with the waste(s) ha an evacuation plan for facility personnel. (265.51(f)) [3745-65-52(	ndled, F)]		$\checkmark$			
2.		py of the Contingency Plan and any plan revisions is maintained on-si submitted to all local and state emergency service authorities that ired to participate in the execution of the plan. (265.53) [3745-65			<u> </u>		# 1	
3.	The or f	plan is revised in response to facility, equipment and personnel chan ailure of the plan. (265.54) [3745-65-54]	ng e s		~		# 1	-
4.		mergency coordinator is designated at all times (on-site or on-call) liar with all aspects of site operation and emergency procedures and ority to implement all aspects of the Contingency Plan. (265.56) [37	11023 5110		_		<u>* 2</u>	
5.	all of t	n emergency situation has occurred, the emergency coordinator has import of the Contingency Plan and has taken all of the actions and the notifications deemed necessary under Sections 265.56(a-j). [3745-	-65-56(A-J)	<b></b> →	<u>~</u>	·	#1, #2	2
	PE	MARKS - # 1 NO CONTINGENCY PLAN HAS	BEEN , COOR	D E 1	IELOD IATOR	PED Z		

Yes No N/A Remark #

#### Subpart E: Manifests/Records/Reporting

NOTE: THE FOLLOWING REQUIREMENTS ARE APPLICABLE TO BOTH ON-SITE AND OFF-SITE TREATMENT, STORAGE AND DISPOSAL FACILITIES.

1.	The Sec	operator maintains a written operating record at his facility as required by tion 265.73 [3745-65-73(A)] which contains the following information:			
	a)	Description and quantity of each hazardous waste treated, stored or disposed of within the facility and the date(s) and method(s) pertinent to such treatment, storage or disposal. (265.73(b)(1)) [3745-65-73(B)(1)]	·	✓ _	# 1
	b)	Common name, EPA Hazardous Waste Identification Number and physical state (liquid, solid, gas) of the waste(s).		<u></u>	
	c)	The estimated (or actual) weight, volume or density of the waste material(s).		<u> </u>	
	d)	A description of the method(s) used to treat, store or dispose of the waste(s) using the EPA Handling Codes listed in 45 FR 33252 (May 19, 1980).		✓, _	
	e)	The present physical location of each hazardous waste within the facility.		<u> </u>	
	f)	FOR DISPOSAL FACILITIES, the location and quantity of each hazardous waste recorded on a map of the facility and cross-references to any pertinent manifest document number(s). (265.73(b)(2)) [3745-65-73(B)(2)]		<u> </u>	
	g)	Records of any waste analyses and trial tests required to be performed.		✓ _	<u> </u>
	h)	Records of the inspections required under Section 265.15 [3745.65.14] (General Inspection Requirements - Subpart B).	<u></u>	<u> </u>	
	1)	Records of any monitoring, testing or analytical data required under other Subparts as referenced by Section 265.73(b)(6). [3745-65-73(B)(6)]	<del></del>	<u> </u>	
	1)	Records of Closure cost estimates and Post-Closure (DISPOSAL ONLY) cost estimates required under Subpart G.		<u> </u>	

		<u>Yes</u>	No	N/A	Remark #
2.	The operators has submitted an annual Treatment-Storage-Disposal Operating Report (by March 1) containing all of the operating information required under Section 265.75. [3745-65-75]		<u> </u>		# 2_
<u>NO1</u>	E: THE FOLLOWING REQUIREMENTS ARE APPLICABLE TO <u>ONLY</u> OFF-SITE TREATMENT, STORAGE A	ND DIS	POSAL !	FACILIT	IES.
3.	Manifests received by the facility are signed and dated; one copy is given to the transporter, one copy is sent to the generator within 30 days and one copy is kept for at least 3 years. (265.71) [3745-65-71(A)		<u></u>		<del>*</del> 3
	a) If shipping papers are used in lieu of manifests (bulk shipments, etc.) the same requirements are met. (265.71(b)) [3745-65-71(B)]			<u>;</u>	± 3
	b) Any significant discrepancies in the manifest, as defined in Section 265.72(a) $[3745-65-72(A)]$ are noted in writing on the manifest document. (265.71(a)(2)) $[3745-65-71(A)(2)]$		<u></u>		# 3
4.	Any manifest discrepancies have been reconciled within 15 days as required by Section 265.72(b) or the operator has submitted the required information to the Regional Administrator/Director. [3745-65-72(B)]		<u> </u>		# 3
5.	If the facility has accepted any unmanifested hazardous wastes from off-site sources (except from small quantity generators) for treatment, storage, or disposal an unmanifested waste report containing all the information required by Section 265.76 has been submitted to the Regional Administrator/Director within 15 days. [3745-65-76(A)]	•	<u> </u>		<u>#</u> 3_
	REMARKS - # 1 FACKITY DOES NOT HAVE A WRITTEN	ori	RATA	NG /	RECORD,
	# 2 ANNUAL REPORTS HAVE NOT BEEN S	TUBM	1177	co.	
	#3 MANUESSTE ARE NOT USED				

SUBPART F: GROUND WATER MONITORING

Тур	pe of facility: (check appropriately)		<u>Yes</u>	<u>No</u>	<u>Unknown</u>	<u>Waived</u>
	<ul><li>a) surface impoundment</li><li>b) landfill</li><li>c) land treatment facility</li></ul>		$\vec{Z}$	<u>/</u>	20	
<u>NOT</u>	UNDER INTERIM STATUS STANDARDS A WASTE MONITORING REQUIREMENTS. PLEASE NOTE, FROM A WASTE PILE IS LEFT IN PLACE AT "LANDFILL" AND MUST MEET POST-CLOSURE	HOWEVER, THAT IF ANY HAZARDOUS WAST CLOSURE, THE "WASTE PILE" BECOMES A	: 'E			· . • . • .
Gro	ound Water Monitoring Program	•		,;		
1.	Was the ground water monitoring program re If "No",	viewed prior to site visit?	•	<u></u>	#1	*
	a) Was the ground water program reviewed site inspection?	at the facility prior to			# 1	
2.	Has a ground water monitoring program (cap facility's impact on the quality of ground aquifer underlying the facility) been impl 265.90(a) [3745-65-90(A)]	water in the uppermost			<u>#</u> ]	
3.	Has at least one monitoring well been inst aquifer hydraulically upgradient from the management area? 265.91(a)(1) [3745-65-9	limit of the waste			NA	#2
	<ul> <li>a) Are ground water samples from the uppe of background ground water quality and (as ensured by proper well number, loc</li> </ul>	not affected by the facility			~/à	# 2_

- 4. Have at least three monitoring wells been installed hydraulically downgradient at the limit of the waste handling or management area? 265.91(a)(2) [3745-65-91(A)(2)]
  - a) Do well number, locations and depths ensure prompt detection of any statistically significant amounts of hazardous waste or hazardous waste constituents that migrate from the waste management area to the uppermost aquifer?
- 5. Have the locations of the waste management areas been verified to conform with information in the ground water program?
  - a) If the facility contains multiple waste management components, is each component adequately monitored?
- 6. Do the numbers, locations, and depths of the ground water monitoring wells agree with the data in the ground water monitoring system program? If "No", explain discrepancies.
- 7. Well completion details. 265.91(c) [3745-65-91(C)]
  - a) Are wells properly cased?
  - b) Are wells screened (perforated) and packed where necessary to enable sampling at appropriate depths?
  - c) Are annular spaces properly sealed to prevent contamination of ground water?

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			Yes	<u>No</u>	<u>Unknown</u>	Walved
3.		ground water sampling and analysis plan been developed?, 2(a) [3745-65-92(A)]		• 	NA	#2.
	a) l	as it been followed?				
	b) 1	s the plan kept at the facility?				
	c) [	oes the plan include procedures and techniques for:				
	1	) Sample collection?	·			
	2	) Sample preservation?	<del></del>	<u></u>	į	
	3	) Sample shipment?		'		
	4	) Analytical procedures?				
	Ę	) Chain of custody control?	n			
۱.	quart	he required parameters in ground water samples being tested erly for the first year? 265.92(b) [3745-65-92(B)] 65.92(c)(1) [3745-65-92(C)]		<del></del>	,	
	a) /	re the ground water samples analyzed for the following:				
	1	Parameters characterizing the suitability of the ground water as a drinking water supply? 265.92(b)(1) [3745-65-92(B)(1)]				
	2	Parameters establishing ground water quality? 265.92(b)(2) [3745-65-92(B)(2)]		<del></del>		
	3	Parameters used as indicators of ground water contamination? 265.92(b)(2) [3745-65-92(B)(3)]		***************************************		
	٠	(1) For each indicator parameter are at least four replicate measurements obtained at each upgradient well for each samp obtained during the first year of monitoring? 265.92(c)(2) [3745-65-92(C)(2)]	ple			

				<u>Yes</u>	<u>No</u>	<u>Unknown</u>	Walved
		(11)	Are provisions made to calculate the initial background arithmetic mean and variance of the respective parameter concentrations or values obtained from the upgradient well(s) during the first year? 265.92(c)(2) [3745-65-92(C)(2)]			~/A	井乙
	b)		illities which have completed first year ground water sampling alysis requirements:			<i>2</i>	n ny pagamana
			ve samples been obtained and analyzed for the ground water ality parameters at least annually? 265.92(d)(l) [3745-65-92(D)(l)]				
		gro	ve samples been obtained and analyzed for the indicators of bund water contamination at least semi-annually? (4 replicate surements per sample) 265.92(d)(2) [3745-65-92(D)(2)]		;		
	с)		ound water surface elevations determined at each monitoring ch time a sample was taken? 265.92(e) [3745-65-92(E)]				
	d)		ound water surface elevations evaluated annually to determine whether itoring wells are properly placed? 265.92(f) [3745-65-92(E)]				
	e)	of mon1	as determined that modification of the number, location or depth toring wells was necessary, was the system brought into compliance 5.91(a) [3745-65-91(A)]? 265.93(f) [3745-65-93(F)]				
10.			ine of a ground water quality assessment program been 265.93(a) [3745-65-93(A)]		·		
	a)	Does 1t	describe a program capable of determining:				
			ther hazardous waste or hazardous waste constituents have ered the ground water?				
			rate and extent of migration of hazardous waste or ardous waste constituents in ground water?	•	·····		4.
		,	centrations of hazardous waste or hazardous waste stituents in ground water?				
						A	N/Z

		<u>Yes</u>	<u>No</u>	<u>Unknown</u>	<u>Walved</u>
	b) After the first year of monitoring, have at least four replicate measurements of each indicator parameter been obtained for samples taken for each well? 265.93(b) [3745-65-93(B)]			N/A	#2
	1) Were the results compared with the initial background means from the upgradient well(s) determined during the first year?			7.	
	(1) Was each well considered individually?	<u></u>			:
	(11) Was the Student's t-test used (at the 0.01 level of significance?)		<del></del>		
	2) Was a significant increase (or pH decrease as well) found in the:				
	(1) Upgradient wells (If "Yes", Compliance Checklist A-2 must also be completed.) [3745-65-93(C)(1)]				
	(11) Downgradient wells	<del></del>			
	If "Yes", owner or operator must obtain, split, and analyze additional samples from the wells where a significant difference was detected. If the difference is confirmed, the Director should be notified in writing within 7 days and a ground water assessment plan within 15 days. [3735-65-93(C)(2) and (D)(2)(3)]	·			
11.	Have records been kept of analyses for parameters in 265.92(c) and (d) [3745-65-92(C) and (D)? 265.94(a)(1) [3745-65-94(A)(1)]		<u> </u>	; ;	
12.	Have records been kept of ground water surface elevations taken at the time of sampling for each well? 265.94(a)(1) [3745-65-94(A)(1)]	<u></u>			
13.	Have records been kept of required elevations in 265.93(b) [3745-65-93(B)]? 265.94(a)(1) [3745-65-94(A)(1)]	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<del></del>		· .
14.	Have the following been submitted to the Director of the Ohio EPA: 265.94(a)(2) [3745-65-94(A)(2)]				
	a) Initial background concentrations of parameters listed in 265.92(b) [3745-65-92(B)] within 15 days after completing each quarterly analysis required during the first year?	<u></u> -			
	,				

- b) For each well, have any parameters whose concentrations or values have exceeded the maximum contaminant levels allowed in drinking water supplied been separately identified?
- c) Annual reports including: [3745-65-94(A)(2)]
  - 1) Concentrations or values of parameters used as indicators of ground water contamination for each well along with required evaluations under 265.93(b) [3745-65-93(B)]?
  - 2) Any significant differences from initial background values in upgradient wells separately identified?
  - 3) Results of the evaluation of ground water surface elevations?

Comments: Subpart F

REMARKS - # 1 APPLICATION OF SUBPART F REQUIRES

DEVELOPMENT OF A GROUND WATER MONITORING

PROGRAM WHICH INCLUDES A SAMPLING AND ANALYSIS

PLAN, PROGRAM EVALUATION AND REPORTING REQUIRE—

MENTS THROUGHOUT THE ACTIVE LIFE OF THE FACILITY

BECAUSE THE ENVIRONMENTAL ASSESSMENT DOES NOT
FULFILL THE REGULATORY REQUIREMENTS OF SUBPART

F, THESE ITEMS WERE NOT APPLICABLE +0

THIS EVALUATION:

Walved

Unknown

Yes

No

Yes No N/A Remark #

#### Subpart G: Closure and Post-Closure

NOTE: THE FOLLOWING REQUIREMENTS ARE APPLICABLE TO BOTH DISPOSAL AND NON-DISPOSAL FACILITIES.

	_	, · · · · · · · · · · · · · · · · ·			
	A w	ritten Closure Plan is on file at the facility and contains the following ments: (Section 265.112) [3745-66-12]		<u> </u>	
	a)	A description of how and when the facility will be closed. $(265.112(a)(1))$ $[3745-66-12(A)(1)]$		<u> </u>	
	b)	A description of how any of the <u>applicable</u> closure requirements in other Subparts of Section 265 [3745-66] (Tanks, Surface Impoundments, Landfill, etc.) will be carried out.		<u> </u>	
	c)	An estimate of the maximum amount of hazardous wastes being treated or in storage at the facility. (NOTE: Maximum inventory should agree with the permit.)		<u> </u>	
	d)	A description of steps taken to decontaminate facility equipment.		<u> </u>	
	e)	The year closure is expected to begin and a schedule for the various phases of closure.	· <del></del>	<u> </u>	
2.	The 1n	Closure Plan has been amended within 60 days in response to any changes facility design, processes or closure dates. (265.112(4)(B)) [3745-66-12(B)]		<u> </u>	
3.	The 180	Closure Plan has been submitted to the Regional Administrator/Director days prior to beginning the Closure process. (265.112(4)(C)) [3745-66-12(C)]		<u> </u>	

REMARKS - # , - NO CLOSURE PLAN HAS BEEN DEVELOPED.

		<u>Yes</u>	- <u>No</u>	<u>N/A</u>	Remark #	
•	Subpart H: Financial Requirements					
1.	The owner or operator of the facility has established financial assurance for closure by use of one of the following: (265.143) [3745-66-43]		<i>/</i>		±.	
	a) A closure trust fund, or		<u> </u>			
	b) A surety bond, or				# (	
	c) A closure letter of credit, or		<u> </u>			
	d) A combination of financial mechanisms.			<u>, — </u>	<u># (</u>	
2.	A written cost estimate for closure of the facility (as specified in the closure plan) is available. How much is it?	·	$\vec{\mathcal{L}}$	· ———	<u>#</u> (	
3.	When was the most recent estimate made?	<del></del>			1	
4.	A written cost estimate for post closure care of the facility (if applicable) is available. How much is it?		<u> </u>		# 1	
5.	When was the most recent estimate made?					
	REMARKS, GENERAL INTERIM STATUS REQUIREMENTS					
	REMARKS - # 1 NO FINANCIAL ASSURANCE HAS BEEN					•
	NOTE: THIS FORM DOES NOT IN					
	REQUIREMENTS OF YOUER	265.	47	AN	0	

DAC 3745-66-47.

			<u>Yes</u>	. <u>No</u>	<u>N/A</u>	Remark #
		Subpart N: Landfills				
1.	Gei	neral Operating Requirements. Does the facility provide the following:				
<u>NO</u> :	<u>E</u> :	1a, 1b AND 1c ARE EFFECTIVE ON NOVEMBER 19, 1981.				<i>i</i> -
	a)	Diversion of run-on away from active portions of the fill? (265.302(a)) [3745-68-02(A)]		<u> </u>		# 1
	b)	Collection of run-off from active portions of the fill? (265.302(b)) [3745-68-02(B)]		<u> </u>		<u>+</u>
	c)	Is collected run-off treated? [3745-68-02(B)]				# 1
	d)	Control of wind dispersal of hazardous waste? (265.302(d)) [3745-68-02(D)]		<u>~</u>		- <del>1</del>
2.	Sur	veying and Recordkeeping. Does the operating record include: [3745-68-09]				
	a)	a map showing the exact location and dimensions of each cell? (269.309(a)) $[3745-68-09(\Lambda)]$		<u>~</u>		# 1
	b)	The contents of each cell and the location of each hazardous waste type within each cell? (269.309(b) [3745-68-09(B)]		<u>\( \lambda \) \(</u>		# 1
3.	Clo	sure and Post-Closure	•			
	a)	Is the closure Plan available for inspection?			•	# 2
	b)	Has this plan been submitted to the Regional Administrator?				# 2
	c )	Has Closure begun?				# 2
	d)	Is Closure cost estimate available by?		<u> </u>		# 2
	Í	CONSTRUCTION, OPERATION AND MAINTER FOR RUN-OFF AND RUN-ON CONT.  LANDFILLS - 1	VANC.	E &	RITE.	516N3 R1A
1		# 7 - NO CLUSURE PLANS DEVELOPED  # 3 - A DRUM WAS OBSERVED IN WASTE MAT		2	Revir	1 12/84

,		<u>Yes</u>	. <u>No</u>	<u>N/A</u>	Remark #
4.	Special requirements for ignitable or reactive waste. (265.312(a)(B)				
	a) Are ignitable or reactive waste treated so the resulting mixture is no longer ignitable or reactive?	*****		$\checkmark$	
NOT	IF WASTE IS RENDERED NON-REACTIVE OR NON-IGNITABLE, SEE TREATMENT REQUIREMENTS.  IF NOT, THE PROVISIONS OF 40 CFR 265.17(b) APPLY. [3745-65-17]				·
5.	Special requirements for Incompatible Wastes.				
	a) Does the owner or operator dispose of incompatible wastes in separate cells? If not, the provisions of 40 CFR 265.17(b) apply. [3745-65-17]		<del></del> /	<u> </u>	
6.	Special requirements for Containers:		-4£.		
	Are empty containers crushed flat, shredded, or similarly reduced in volume before being buried beneath the surface of the landfill? (265.315) [3745-57-85]				#3
7.	Special requirements for Liquid Waste.				
	Bulk or non-containerized liquid waste or waste containing free liquids is placed in a landfill having a liner and leachate collection and removal system meeting 264.301(a) requirements or is treated so that free liquids are no longer present. (265.314(a)) [3745-68-14(A)]		<u> </u>		,
8.	A written Post-Closure Plan is on file at the facility.		$\checkmark$		# 2
9.	The Post-Closure Plan has been amended within 60 days in response to any changes in facility design or operation. (265.118(b))	<del></del>	<u> </u>	<del></del>	# 2_
10.	The Post-Closure Plan has been submitted to the Regional Administrator/Director 180 days prior to beginning Closure. (265.118(c))		$ \checkmark $		F 2
11.	The property owner has attached a notation to the property deed or other instrument which will notify any potential purchaser that the property has been used to manage hazardous waste and future use of the property is restricted under Section 265.117(c) [3745-66-17(C)] as required in Section 265.120 [3745-66-10].		<u></u>		

LANDFILLS - 2

2:00-5:30 PM.
Date and Time of Inspection

		HWFAB #
GENERAL INFORMATION		U.S. EPA I.D. # OHD 017-497-58
Facility: AMERICAN STEEL FOUNDRIES	Address: LAKE PARK BLUD AT HEAC	OCK City: SEBRING TWP
State: OHIO Zip Code:	100 to 10	elephone: NO TELEPHONE
	INSPECTION PARTICIPANT(S)	av. *
(Name)	(Title)	(Telephone)
1. CHARLES A.DIXON	WORKS MNAGER	216 -823 -6150
2. JOHN A. DIFLOURE	ASSIT WORKS MANAGER	216 - 823-6150
3		_
	INSPECTOR(S)	
1. CATHERINE MCCORD	OHIO EPA. NE DISTRICT ENVIRONMENTA	LENS. 216 425-9171
2. WILLIAM SKOWRONSKI	OHIO EPA NE DISTRICT	216 425-9171
3. —	guards.	
	INSTALLATION ACTIVITY	n n
Mark One If the s	ite is a TSDF, check the boxes indicating	which areas were reviewed.
* 1		
	eneral Facility Standards, Preparedness	/_/ Waste Piles S03
	nd Prevention, Contingency and Emergency anifests/Records/Reporting, Closure	/_/ Land Treatment D81
<u>/</u> ✓ TSDF only /_/ Co	ontainers SO1	Landfills D80
/ G-T// Ta	nks S02/T01	/_/ Chemical/Physical/ Biological TO4
/ G_TSDF/ Su	rface Impoundments S04/T02	angul tamar lama
/_/ T-TSDF /_/ In	cineration/Thermal Treatment	Groundwater Monitoring
/ / G-T-TSDF		Post-Closure

			162	140	117 M	KCHIGI K #
1.	Has the facility submitted a Part A to Ohio?	** -		X	<del></del>	_#/_
2.	If "yes", is it complete and accurate?	•		*	$\succeq$	
3.	Has the facility submitted a Part B?		<del></del> ,	$\geq$		
4.	Was advance notice of the inspection given? If so, how far in advance?		$\times$			10 days

REMARKS, GENERAL INFORMATION

Include a brief description of site activity and waste handling.

IF THE SITE HAS RECEIVED A PART B PERMIT, USE THE RCRA STATUS INSPECTION FORM.

#1 PART A SUBMITTED TO U.S. EPA FOR DISPOSAL FACILITY, WITHDRAWN BY COMPANY ON

THIS IS A DISPOSAL SITZ OWNED BY AMERICAN STEEL FOUNDRIES. THIS SITZ IS A FORMER COAL STRIP MINE CUT AND LATER CLAY MINE WHICH IS BEING FILLED WITH THE COMPANY'S I NOUSTRIAL WASTE, SOME HAZARDOUS AND SOME NO AHHAZARDOUS. THIS SITE DOES NOT HAVE A SOCIO WASTE LICENSE BR DISPOSAL.

40	CFR 265 (OAC 3745-65-et seq.) GENERAL INTERIM STATUS REQUIREMENTS AND TSD REQUI	REMENTS	·-···		<del></del>
		<u>Yes</u>	<u>No</u> ʻ	<u>N/A</u>	Remark #
	Subpart B: General Facility Standards				
1.	The operator has a detailed chemical and physical analysis of the waste matericontaining all of the information which must be known to properly treat or sto the waste as required by Section 265.13(a) [3745-65-13(A)(1)]			·	# /
2.	The operator has a written waste analysis plan which describes analytical parameters, test methods, sampling methods, testing frequency and responses to any process changes that may affect the character of the waste. (Section 265.13(b)) [3745-65-13(B)]				#2
3.	<ul> <li>a) Would physical contact with the waste structures or equipment injure unknowing/unauthorized persons or livestock entering the facility? (265.14(a)(1)) [3745-65-14(A)(1)]</li> </ul>		<del></del>		UNKNOUN
	b) Would disturbance of the waste cause a violation of the hazardous waste regulations? (265.14(a)(2)) [3745-65-14(A)(2)]	<del></del>			UNKMW
	IF <u>BOTH</u> 3a AND 3b ARE "NO", MARK QUESTIONS 4 AND 5 "NOT APPLICABLE".				
4.	The facility has -				
	a) A 24-hour surveillance system, or	<del></del>	X		:
	b) An artificial or natural barrier <u>and</u> a means to control entry at all times (265.14(b)(2)). [3745-65-14(B)(2)(a and b)]		X		
5.	The facility has a sign "Danger-Unauthorized Personnel Keep Out" at each entrance to the active portion of the facility and at other locations as necessary. (265-14(c)) [3745-65-14(C)]		X	B	#3
-44	FI ONLY MINIMAL TESTING HAS BEEN COMPLETED. DURING THE ROUND OF SAMPLING, SAMPLES WERE SPLIT WITH OHI ONE WASTE STREAM IS HAZARDOUS. THE COMPANY DID NO CLECT ANALYTICAL PROCEDURES FOR THEIR EP TOXICITY NO MASTE MALYSIS PUND #3 SOME FENCING, INCORRECT SIGNS, BARRIERS ARE INADEQUE	1 ANALY	PEC AT ( SIS ,	をNT _FAST Hを Revis	r ea (2/84

		<u>Ye s</u>	<u>No</u>	N/A	<u>Remark #</u>
6. a	The operator has developed and followed a comprehensive, written inspection plan and documented the inspections, malfunctions and any remedial actions taken in an operating record log which is kept for at least three years. (265.15) [3745-65-15]	•	X		<u>#-4</u>
b	Areas subject to spills (i.e., loading and unloading areas, container storage areas, etc.) are inspected daily when in use and according to other applicable regulations when not actively in use. (265.15(b)(4)) [3745-65-15(B)(4)]	b	X		#4
S e	he facility has provided a Personnel Training Program in compliance with ection 265.16(a)(b)(c) including instruction in safe equipment operation and mergency response procedures, training new employees within 6 months and roviding an annual training program refresher course. [3745-65-16(A)(B)(C)]	, 	<u> </u>		<del>+5</del>
W	he facility keeps all records required by Section 265.16(d)(e) including ritten job titles, job descriptions and documented employee training records.		<u>X</u>		#6
1	f required due to the actual hazards associated with Ignitable, Reactive or ncompatible waste materials, the facility meets the following requirements: Section 265.17) [3745-65-17]				
a	) Protection from sources of ignition.			$\underline{\mathcal{X}}$	
b	) Physical separation of incompatible waste materials.				
C	) "No Smoking" or "No Open Flames" signs near areas where Ignitable or Reactive wastes are handled.			$\searrow$	
ď	Any comingling of waste materials is done in a controlled, safe manner as prescribed by Section 265.17(b). [3745-65-17(B)]	·		$\underline{\times}$	·
	NO INSPECTION PUN, NO INSPECTIONS  5 NO PERSONNEL TRAINING RELATED TO HAZARDOUS WASTE SAFETY PROCEDURES  6 MESE RECORDS RELATED TO HAZARDOUS WASTES ARE  GENERAL FACILITY STANDARDS - 2				

		<u>Yes</u>	<u>No</u>	<u>N/A</u>	<u>Remark #</u>
	Subpart C: Preparedness and Prevention				
١.	Has there been a fire, explosion or non-planned release of hazardous waste at this facility? (265.31) [3745-65-31]				UNXNOWN)
2.	If required due to actual hazards associated with the waste material, the facility has the following equipment: (265.32) [3745-65-32(A)(B)(C)(D)]				
	a) Internal alarm system.		<del>X</del>		#7
	b) Access to telephone, radio or other device for summoning emergency assistance.		X		#7
	c) Portable fire control equipment.		$\times$		#7
	d) Water of adequate volume and pressure via hoses sprinkler, foamers or sprayers.		$\angle$		<del>#</del> 7
3.	All required safety, fire and communications equipment is tested and maintained as necessary; testing and maintenance are documented. (265.33) [3745-65-33]		X		#7
4.	If required due to the actual hazards associated with the waste material, personnel have immediate access to an emergency communication device during times when hazardous waste is being physically handled. (265.34) [3745-65-34]	Ą			TRUCKS HUAV
5.	If required due to the actual hazards associated with the waste material, adequate aisle space to allow unobstructed movement or emergency or spill control equipment is maintained. (265.35) [3745-65-35]				
6.	If required due to the actual hazards associated with the waste material, the facility has attempted to make appropriate arrangements with local emergency service authorities to familiarize them with the possible hazards and the facility layout. (265.37(a)) [3745-65-37(A)]		X		#8
7.	Where state or local emergency service authorities have declined to enter into any proposed special arrangements or agreements the refusal has been documented. (265.37(b)) [3745-65-37(B)]  #7 NO SAFETY OR COMMUNICATIONS AT DISPOSAL SITE OTHER		· · · · · · · · · · · · · · · · · · ·	<u>.X</u> .	
	THAN TRUCKS WHICH DUMP HASTE INTO CUT.				•

# 8 NO ARRANGEMENTS MAY PREPAREDNESS AND PREVENTION - I

			<u>Yes</u>	<u>No</u>	<u>N/A</u>	<u>Remark #</u>
		Subpart D: Contingency and Emergency		•		
•	fir	facility has a written Contingency Plan designed to minimize hazards from e, explosions or unplanned releases of hazardous wastes (265.51) 45-65-52(A)(B)(C)(D)(E)] and contains the following components:				
	a)	Actions to be taken by personnel in the event of an emergency incident.		$\times$		<u> ++9</u>
	b)	Arrangements or agreements with local or state emergency authorities.		太	<u> </u>	-#9
	c)	Names, addresses and telephone numbers of all persons qualified to act as emergency coordinator.		X		#9_
	d)	A list of all emergency equipment including location, physical description and outline of capabilities.		X		#9
	e),,	If required due to the actual hazards associated with the waste(s) handled, an evacuation plan for facility personnel. (265.51(f)) [3745-65-52(F)]		X		#9
2.	bee	opy of the Contingency Plan and any plan revisions is maintained on-site and has n submitted to all local and state emergency service authorities that might be uired to participate in the execution of the plan. (265.53) [3745-65-53(A)(B)]		$\times$	<del></del>	#9
١.		plan is revised in response to facility, equipment and personnel changes failure of the plan. (265.54) [3745-65-54]		$\Rightarrow$		#9
١.	fam	emergency coordinator is designated at all times (on-site or on-call) is iliar with all aspects of site operation and emergency procedures and has the hority to implement all aspects of the Contingency Plan. (265.56) [3745-65-55]		<u>X</u>		<del>1</del> 10
·	all	an emergency situation has occurred, the emergency coordinator has implemented or part of the Contingency Plan and has taken all of the actions and made all the notifications deemed necessary under Sections 265.56(a-j). [3745-65-56(A-J)	-	$\times$		#9
-		# 10 NO DESIGNATED HAZARZOULS MASTE EMERGENCY C	.00P.R	TAU C	TY .	

## Subpart E: Manifests/Records/Reporting

NOTE:	THE FOLLOWING R	EQUIREMENTS	ARE	APPLICABLE	T0	<u>BOTH</u>	ON-SITE	AND	OFF-SITE	TREATMENT,	STORAGE	AND
	DISPOSAL FACILI									•	•	

The Sec	operator maintains a written operating record at his facility as required by tion 265.73 [3745-65-73(A)] which contains the following information:		•		
a)	Description and quantity of each hazardous waste treated, stored or disposed of within the facility and the date(s) and method(s) pertinent to such treatment, storage or disposal. (265.73(b)(1)) [3745-65-73(B)(1)]		<u>×</u>		<u>-#=   </u> +12
b)	Common name, EPA Hazardous Waste Identification Number and physical state (liquid, solid, gas) of the waste(s).				#11+12
c)	The estimated (or actual) weight, volume or density of the waste material(s).		<u> </u>		#11+12
d)	A description of the method(s) used to treat, store or dispose of the waste(s) using the EPA Handling Codes listed in 45 FR 33252 (May 19, 1980).		$\lambda$		#11+12
e)	The present physical location of each hazardous waste within the facility.	<del></del>	$\Delta$		上井11+12
f)	FOR DISPOSAL FACILITIES, the location and quantity of each hazardous waste recorded on a map of the facility and cross-references to any pertinent manifest document number(s). (265.73(b)(2)) [3745-65-73(B)(2)]		X		#11+12
g)	Records of any waste analyses and trial tests required to be performed.		X		#11-12
h)	Records of the inspections required under Section 265.15 [3745.65.14] (General Inspection Requirements - Subpart B).	<del></del>	X.		#11+12
1)	Records of any monitoring, testing or analytical data required under other Subparts as referenced by Section 265.73(b)(6). [3745-65-73(B)(6)]		X		#1(+12
j)	Records of Closure cost estimates and Post-Closure (DISPOSAL ONLY) cost estimates required under Subpart G.	·	X	<del></del>	<u> </u>
井	11 FACILITY DOES NOT HAVE AN OPERATING RECORD  11 NO RECORDS RENTED TO HAZ-ARROUS WASTES ARE  12 NO RECORDS RENTED MANIFESTS/RECORDS/REPORTING - 1	KEP	<del></del>		

		-	<u>Yes</u>	<u>No</u>	<u>N/A</u>	<u>Remark #</u>
2.	The operators has submitted an annual Treatment-Storage-Disposal Operating Report (by March 1) containing all of the operating information required under Section 265.75. [3745-65-75]		· · ·	Χ.	· ·	#13
רסמ	E: THE FOLLOWING REQUIREMENTS ARE APPLICABLE TO ONLY OFF-SITE TREATMENT, STORAGE	AND	DISF	OSAL P	ACILIT	IES.
3.	Manifests received by the facility are signed and dated; one copy is given to the transporter, one copy is sent to the generator within 30 days and one copy is kept for at least 3 years. (265.71) [3745-65-71(A)		· ·	X		<u> </u>
	a) If shipping papers are used in lieu of manifests (bulk shipments, etc.) the same requirements are met. (265.71(b)) [3745-65-71(B)]		· .	X		#14
	b) Any significant discrepancies in the manifest, as defined in Section 265.72(a) [3745-65-72(A)] are noted in writing on the manifest document. (265.71(a)(2)) [3745-65-71(A)(2)]		····	$\angle$		#14
4.	Any manifest discrepancies have been reconciled within 15 days as required by Section 265.72(b) or the operator has submitted the required information to the Regional Administrator/Director. [3745-65-72(B)]		<u>.                                    </u>	<u>×</u>	<b>.</b> ——	+14
5.	If the facility has accepted any unmanifested hazardous wastes from off-site sources (except from small quantity generators) for treatment, storage, or disposal an unmanifested waste report containing all the information required by Section 265.76 has been submitted to the Regional Administrator/Director within 15 days. [3745-65-76(A)]			X		<u>#14</u>
	#13 REPORTS HAVE NOT BEEN SUBMITTED  #14 NO MANIFESTS OR SHIPPING RAPERS ARE US  NO EXCEPTION REPORTS SUBMITTED	કદ	)	,		

SUBPART F: GROUNDWATER MONITORING

Type of	facility: (check appropriately)	er Line of the second	<u>Yes</u>	No	<u>Unknown</u>	<u>Waived</u>
a) b) c)	surface impoundment landfill land treatment facility		医	区区		
NOTE:	UNDER INTERIM STATUS STANDARDS A WASTE PILE IS NOT SUBJECT TO GROUN MONITORING REQUIREMENTS. PLEASE NOTE, HOWEVER, THAT IF ANY HAZARDO FROM A WASTE PILE IS LEFT IN PLACE AT CLOSURE, THE "WASTE PILE" BEC "LANDFILL" AND MUST MEET POST-CLOSURE RULES APPLICABLE TO LANDFILLS	OUS WASTE COMES A	-	• .		
Groundw	ater Monitoring Program					
	the groundwater monitoring program reviewed prior to site visit? "No",		SPESIE	$\times$	#15	
a)	Was the groundwater program reviewed at the facility prior to site inspection?			×	#15	
fac aqu	a groundwater monitoring program (capable of determining the ility's impact on the quality of groundwater in the uppermost ifer underlying the facility) been implemented?  .90(a) [3745-65-90(A)]		·	$\times$		
aqu	at least one monitoring well been installed in the uppermost ifer hydraulically upgradient from the limit of the waste agement area? 265.91(a)(1) [3745-65-91(A)(1)]		******	X		
·	Are groundwater samples from the uppermost aquifer, representative of background groundwater quality and not affected by the facility (as ensured by proper well number, location and depths)?		<del>Şidinad</del> ada <b>tla</b>	<u>\</u>		
#	15 NO GROUNDWATER MONITORING CURRENT AN IMPACT STUDY IS TO BEGIN IN (Myduo-geo)	IL NEAR	FUTUR	<u> </u>		

- 4. Have at least three monitoring wells been installed hydraulically downgradient at the limit of the waste handling or management area? 265.91(a)(2) [3745-65-91(A)(2)]
  - a) Do well number, locations and depths ensure prompt detection of any statistically significant amounts of hazardous waste or hazardous waste constituents that migrate from the waste management area to the uppermost aquifer?
- 5. Have the locations of the waste management areas been verified to conform with information in the groundwater program?
  - a) If the facility contains multiple waste management components, is each component adequately monitored?
- 6. Do the numbers, locations, and depths of the groundwater monitoring wells agree with the data in the groundwater monitoring system program? If "No", explain discrepancies.
- 7. Well completion details. 265.91(c) [3745-65-91(C)]
  - a). Are wells properly cased?
  - b) Are wells screened (perforated) and packed where necessary to enable sampling at appropriate depths?
  - c) Are annular spaces properly sealed to prevent contamination of groundwater?

<u>Yes</u>	<u>No</u>	<u>Unknown</u>	<u>Walved</u>
<del></del>	X	# 1	
	X		
<b></b>	X		
	X		
<del></del>	<u>X</u>		
	<u>X</u>	div-matralifestida	
	X		
	X	1	

			<u>Yes</u>	<u>No</u>	Unknown Walved #15
•	. Has a groundwater sampling and analysis plan been developed 265.92(a) [3745-65-92(A)]	1?	•	<u>_X</u> _	— /
	a) Has it been followed?			$\frac{\lambda}{\lambda}$	
	b) Is the plan kept at the facility?			X	
	c) Does the plan include procedures and techniques for:				
	1) Sample collection?		<del></del>	X	
	2) Sample preservation?			<del>\</del>	
	3) Sample shipment?		<del></del>		
	4) Analytical procedures?		-	X	
	5) Chain of custody control?			X	
•	. Are the required parameters in groundwater samples being te quarterly for the first year? 265.92(b) [3745-65-92(B)] and 265.92(c)(1) [3745-65-92(C)]	sted		<u>X</u>	
	a) Are the groundwater samples analyzed for the following:				
	<ol> <li>Parameters characterizing the suitability of the gr as a drinking water supply? 265.92(b)(1) [3745-65</li> </ol>			<u>X</u>	
	2) Parameters establishing groundwater quality? 265.92(b)(2) [3745-65-92(B)(2)]				
	3) Parameters used as indicators of groundwater contam 265.92(b)(2) [3745-65-92(B)(3)]	ination?	handerell pickersää	$\lambda$	
	(1) For each indicator parameter are at least four measurements obtained at each upgradient well obtained during the first year of monitoring?	replicate for each sample		y	

	8		<u>Yes</u>	<u>No</u>	<u>Unknown</u>	<u>Walved</u>
	(1,1)	Are provisions made to calculate the initial background arithmetic mean and variance of the respective parameter concentrations or values obtained from the upgradient well(s) during the first year? 265.92(c)(2) [3745-65-92(C)(2)]		X	# 15	
b)		cilities which have completed first year groundwater sampling alysis requirements:				
		ve samples been obtained and analyzed for the groundwater ality parameters at least annually? 265.92(d)(l) [3745-65-92(D)(l)]	<del></del>	<u>X</u> .		
	gro	ve samples been obtained and analyzed for the indicators of bundwater contamination at least semi-annually?		<u> </u>		
c)		coundwater surface elevations determined at each monitoring such time a sample was taken? 265.92(e) [3745-65-92(E)]	<del></del>	X		
d)		coundwater surface elevations evaluated annually to determine whether intoring wells are properly placed? 265.92(f) [3745-65-92(E)]	-	<u>X</u>		
e)	of moni	vas determined that modification of the number, location or depth toring wells was necessary, was the system brought into compliance 55.91(a) [3745-65-91(A)]? 265.93(f) [3745-65-93(F)]		<u>X</u>		•
		ine of a groundwater quality assessment program been 265.93(a) [3745-65-93( $\Lambda$ )]	**************************************	<u>X</u>		
a)	Does 1t	describe a program capable of determining:				
		ther hazardous waste or hazardous waste constituents have ered the groundwater?	<del></del>	<del>\</del>		
		rate and extent of migration of hazardous waste or ardous waste constituents in groundwater?	***************************************	X		
	•	centrations of hazardous waste or hazardous waste stituents in groundwater?	SATONE NATIONAL DE LA CONTRACTION DE L	X	V	

10.

			•	<u>Yes</u>	No	<u>Unknown</u> <u>Waived</u>
	measurement	first year of monitoring, have at 1 ts of each indicator parameter been each well? 265.93(b) [3745-65-93(	obtained for samples		<i>→</i>	#15
		ne results compared with the initia ne upgradient well(s) determined du		State-Operator	<u> </u>	
	(i) Wa	as each well considered individuall	<b>y?</b> ,	. <del></del>	<u> </u>	
	(ii) Wa	as the Student's t-test used (at th	e 0.01 level of significance	e?)	X	
	2) Was a s	significant increase (or pH decreas	e as well) found in the:	·		
		ogradient wells (If "Yes", Complia ust also be completed.) [3745-65-9		************	$\overline{\lambda}$	
•	(11) Do	owngradient wells			<u> </u>	
·17.		een kept of analyses for parameters 55-92(C) and (D)? 265.94(a)(l) [3		<del></del>		
12.		een kept of groundwater surface ele ng for each well? 265.94(a)(1) [3			<u>X</u>	
	from the wells is confirmed, t	or operator must obtain, split, a where a significant difference was the Director should be notified in sessment plan within 15 days. [373	detected. If the difference writing within 7 days and a	ce		
13.		een kept of required elevations in 3745-65-94(A)(l)]	265.93(b) [3745-65-93(B)]?	Alle Saume	<u>X</u>	
14.		ving been submitted to the Regional [3745-65-94(A)(2)]	Administrator:			
	[3745-65-92	ckground concentrations of parameter?(B)] within 15 days after completing the first year?			X	<b>√</b> .
	and the second s		The state of the s		\	

			<u>Yes</u>	<u>No</u>	Unknown Waived
}	hav	each well, have any parameters whose concentrations or values e exceeded the maximum contaminant levels allowed in drinking er supplied been separately identified?	ENVERNAL AL	j!	#5
)	An:n	ual reports including: [3745-65-94(A)(2)]			
	1)	Concentrations or values of parameters used as indicators of groundwater contamination for each well along with required evaluations under 265.93(b) [3745-65-93(B)]?		<u>X</u>	
	2)	Any significant differences from initial background values in upgradient wells separately identified?		X	
	3)	Results of the evaluation of groundwater surface elevations?	<del></del>	X	

Comments: Subpart F

			<u>Yes</u>	<u>No</u>	N/A	Remark #
		Subpart G: Closure and Post-Closure	·	4		
OTE	: TH	E FOLLOWING REQUIREMENTS ARE APPLICABLE TO <u>BOTH</u> DISPOSAL AND NON-DISPOSAL FACI	LITIES	5.		
		tten Closure Plan is on file at the facility and contains the following nts: (Section 265.112) [3745-66-12] .	<del></del>	X	*****	#16
	•	description of how and when the facility will be closed. 265.112(a)(1)) [3745-66-12(A)(1)]	<del></del>	X		#10
	\$.	description of how any of the <u>applicable</u> closure requirements in other ubparts of Section 265 [3745-66] (Tanks, Surface Impoundments, Landfill, tc.) will be carried out.	<u> </u>	$\overline{\lambda}$		#16
	1.1	n estimate of the maximum amount of hazardous wastes being treated or n storage at the facility. (NOTE: Maximum inventory should agree with he permit.)		X	***************************************	#16
	d) A	description of steps taken to decontaminate facility equipment.	•	$\stackrel{\textstyle  o}{ o}$		<u>#16</u>
		he year closure is expected to begin and a schedule for the various hases of closure.		<del>/</del>	•	#16
		losure Plan has been amended within 60 days in response to any changes cility design, processes or closure dates. (265.112(4)(B)) [3745-66-12(B)]	<del></del>	*		#16
		losure Plan has been submitted to the Regional Administrator/Director ays prior to beginning the Closure process. (265.112(4)(C)) [3745-66-12(C)]	<del></del>	$\overline{\chi}$		#16
				•	•	

ATIONO CLOSURE PUN TUAS BEENDEVELOPED

		<u>Yes</u>	<u>No</u>	<u>N/A</u>	<u>Remark #</u>
	Subpart H: Financial Requirements		•	•	
•	The owner or operator of the facility has established financial assurance f closure by use of one of the following: (265.143) [3745-66-43]	or			
	a) A closure trust fund, or		· <del>/</del> ·	•	410
	b) A surety bond, or		. <del>/</del>		#17
	c) A closure letter of credit, or	-	. <u>Ý</u>		<u>#17</u>
	d) A combination of financial mechanisms.	. <del></del>	. <u>*</u>	<del></del>	<u>#17</u>
•	A written cost estimate for closure of the facility (as specified in the closure plan) is available. How much is it?	, <u></u>	<u> </u>		<u> </u>
	When was the most recent estimate made?	<del></del>	. <u>X</u>	<del></del>	#17
۰	A written cost estimate for post closure care of the facility (if applicablis available. How much is it?	ie) 	<u> </u>		<u>#17</u>
٠	When was the most recent estimate made?		. ×	<del></del>	#17

REMARKS, GENERAL INTERIM STATUS REQUIREMENTS

417 NO FINANCIAL ASSUBANCE HAS BEEN ESTABLISHED

			<u>Yes</u>	No	<u>N/A</u>	Remark #
		Subpart N: Landfills				÷
٦.	Ger	neral Operating Requirements. Does the facility provide the following:				
NOT	<u>E</u> :	la, lb AND lc ARE EFFECTIVE ON NOVEMBER 19, 1981.	. **			
	a)	Diversion of run-on away from active portions of the fill? (265.302(a)) [3745-68-02(A)]			*****	<del></del>
	b)	Collection of run-off from active portions of the fill? (265.302(b)) [3745-68-02(B)]		<u>X</u>	<u></u>	
	c)	Is collected run-off treated? [3745-68-02(B)]	****	$\angle$		***************************************
	d)	Control of wind dispersal of hazardous waste? (265.302(d)) [3745-68-02(D)]		$\stackrel{\times}{\rightarrow}$		
2.	Sur	rveying and Recordkeeping. Does the operating record include: [3745-68-09]				
	a)	a map showing the exact location and dimensions of each cell? (269.309(a)) $[3745-68-09(\Lambda)]$	**********	<u> </u>		
	b)	The contents of each cell and the location of each hazardous waste type within each cell? (269.309(b) [3745-68-09(B)]		$\overline{\chi}$		
3.	Clo	osure and Post-Closure				
	a)	Is the closure Plan available for inspection?	<del>50-0-0-0-4</del>	$\rightarrow$	<del></del>	***************************************
	b)	Has this plan been submitted to the Regional Administrator?	D-11-11-11	X		
	c)	Has Closure begun?	***********	X	<del></del>	***************************************
	d)	Is Closure cost estimate available by?		X		

		<u>Yes</u>	<u>No</u>	<u>N/A</u> <u>I</u>	Remark #
4.	Special requirements for ignitable or reactive waste. (265.312(a)(B)				
	a) Are ignitable or reactive waste treated so the resulting mixture is no longer ignitable or reactive?			<b>X</b> .	
NOT	E: IF WASTE IS RENDERED NON-REACTIVE OR NON-IGNITABLE, SEE TREATMENT REQUIREMENTS. IF NOT, THE PROVISIONS OF 40 CFR 265.17(b) APPLY. [3745-65-17]	'n			
5.	Special requirements for Incompatible Wastes.			÷	
	a) Does the owner or operator dispose of incompatible wastes in separate cells? If not, the provisions of 40 CFR 265.17(b) apply. [3745-65-17]	··········			
6.	Special requirements for Containers:				
	Are empty containers crushed flat, shredded, or similarly reduced in volume before being buried beneath the surface of the landfill? (265.315) [3745-57-85]	X		-	# 18
7.	Special requirements for Liquid Waste.	•			
	Bulk or non-containerized liquid waste or waste containing free liquids is placed in a landfill having a liner and leachate collection and removal system meeting 264.301(a) requirements or is treated so that free liquids are no longer present. (265.314(a)) [3745-68-14(A)]		<u> </u>		4-19
8.	A written Post-Closure Plan is on file at the facility.		$\Rightarrow$		
9.	The Post-Closure Plan has been amended within 60 days in response to any changes in facility design or operation. (265.118(b))		<u>×</u>	<b>-</b>	
10.	The Post-Closure Plan has been submitted to the Regional Administrator/Director 180 days prior to beginning Closure. (265.118(c))		X		
11.	The property owner has attached a notation to the property deed or other instrument which will notify any potential purchaser that the property has been used to manage hazardous waste and future use of the property is restricted under Section 265.117(c) [3745-66-17(C)] as required in Section 265.120 [3745-66-10].		$\preceq$		
	# 3 CONSTAND DRUMS VISTBUR LANDFILLS - 2 #19 NO PROVISIONS FOR LIQUIDS			Revised	12/84

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